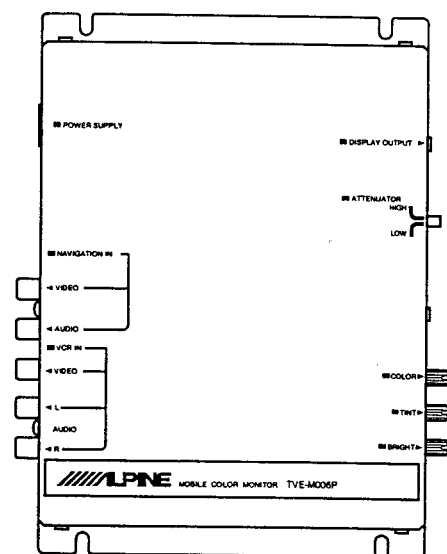
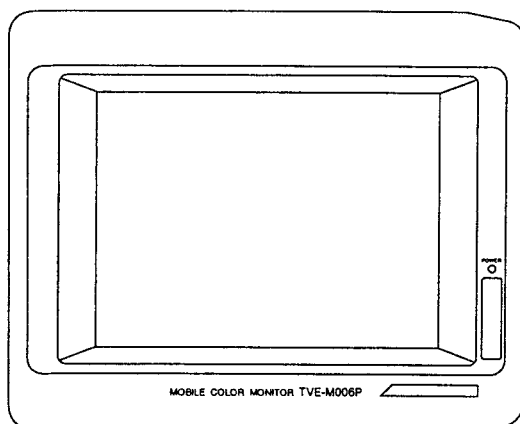


///ALPINE

SERVICE MANUAL

5.6-inch Mobile Color Monitor Unit

● This model is component system unit of AV Interface Unit and Monitor Unit.



TVE-M006P

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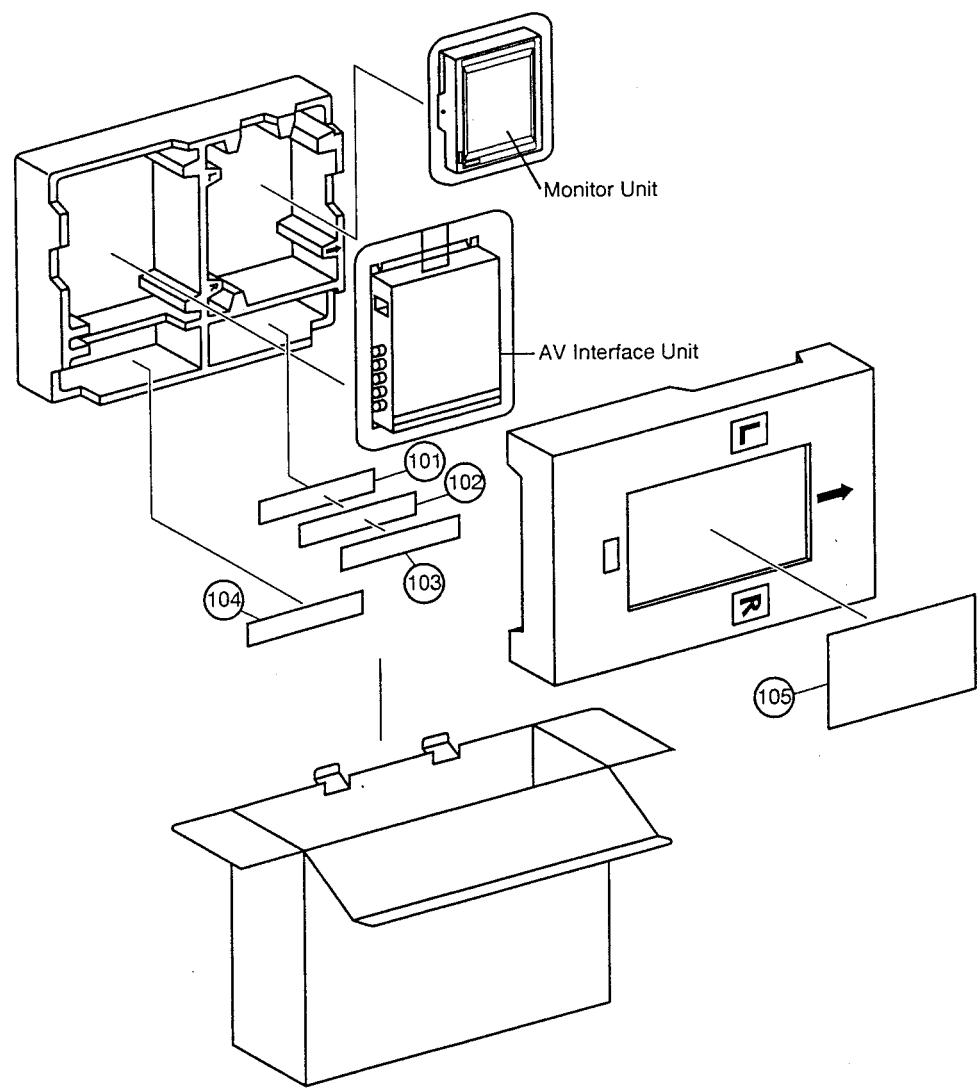
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NOTE : Due to continuing product improvement, specifications and designs are subject to change without notice.

Packing Assembly Parts List

| Symbol No. | Part No. | Description | Symbol No. | Part No. | Description |
|------------|-------------|------------------------|------------|----------|-------------|
| 101 | 01T85426W02 | Assy., Cable | | | |
| 102 | 01T25930W08 | Assy., Power Wire | | | |
| 103-1 | 03S40018G07 | Screw, Tapping (M4X14) | | | |
| 103-2 | 75T58346F01 | Pad, Magic Tape | | | |
| 104 | 01T85360W01 | Stand, ETST6 | | | |
| 105 | 68P81384W33 | Owner's Manual | | | |

Packing Method View



AV Interface Unit

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Specifications

| | |
|--------------------------|--|
| Output | VIDEO : 1Vp-p |
| | AUDIO : 500mV |
| Input | VIDEO : 1Vp-P |
| | AUDIO : 500mV |
| FSC | PAL : 4.433618MHz \pm 300Hz |
| | NTSC : 3.579545MHz \pm 300Hz |
| Audio Attenuator | HIGH : \pm 0dB |
| | LOW : -6dB |
| Power Supply | DC14.4V (11~16V allowable) |
| Semiconductors | 8 IC's, 23 Transistors, 5 Diodes, 1 Zener Diodes |
| Dimensions (W×H×D) | 145×29×182mm |
| Weight | 540g |

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

Adjustment Procedures

1) Preparation for adjustments

- ① Connect the AV interface unit to the Monitor unit .
- ② Connect the DC voltage regulator power supply of $14.4 \pm 0.1V$ to the power supply connector (ET801).
- ③ Set each switch / Volume of the AV interface unit to the following position.
 - ATTENUATOR Level switch (S201) [HIGH]
 - Volume, COLOR (VR906) / TINT (VR907) / BRIGHT (VR908) [Center Position]Set each switch of the Monitor unit to the following position.
 - Main POWER Switch (S500) [STAND BY]
 - DIMMER Switch (S501) [HIGH]

2) Adjustment procedures

- ① Connect the DC voltmeter between T.P.1 and GND. Adjust VR901 unit the voltage level between T.P.s above becomes $0.95 \pm 0.1V$.
- ② Connect the DC voltmeter between T.P.2 and GND. Adjust VR902 unit the voltage level between T.P.s above becomes $1.38 \pm 0.1V$.
- ③ Connect the DC voltmeter between T.P.3 and GND. Adjust VR903 unit the voltage level between T.P.s above becomes $0.5 \pm 0.1V$.
- ④ Connect the DC voltmeter between T.P.4 and GND. Adjust VR904 unit the voltage level between T.P.s above becomes $2.5 \pm 0.1V$.
- ⑤ Connect the DC voltmeter between T.P.5 and GND. Adjust VR905 unit the voltage level between T.P.s above becomes $3.5 \pm 0.1V$.

Terminal Voltage of IC/TR

IC201 IC803 IC902 IC903, 904

| | | | | | | | |
|---|----|---|-------|----|----|---|----|
| 8 | 8V | 1 | 5V | 35 | 5V | 7 | 8V |
| | | 3 | 10.5V | | | | |

| | E | C | B |
|------|-------|-------|---|
| Q801 | 14.2V | 14.1V | — |
| Q803 | 13.4V | 13.3V | — |
| Q805 | 13.4V | — | — |
| Q806 | 14V | PS | — |
| Q807 | 8.1V | 13.3V | — |

NOTE : For the terminal voltage not mentiond, the voltage indication is omitted for the voltage varies depend on the operation mode.

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : Monitor Unit Connection

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Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads,pF=picofarads

| Abbreviations | | |
|------------------------|----------------------|---------------|
| RES.= Resistor | CAP.= Capacitor | |
| C.F.= Carbon Film | ELY.= Electrolytic | |
| M.F.= Metal Film | CER.= Ceramic | |
| M.O.= Metal Oxide Film | MYL.= Mylar | |
| M.P.= Metal Plate | TAN.= Tantalum | |
| TR. = Transistor | POLY.= Polystyrol | |
| TRANS.= Transformer | PP. = Polypropylene | |
| CP. = Chip | PLT.= Polyethylene | |
| | PF. = Polyester Film | |
| Symbol No. | Part No. | Description |
| BOX P.C.Board | | |
| IC's | | |
| IC201 | 51T93338F01 | NJM4560E |
| IC202 | 51T45178W02 | TC4W53F |
| IC801 | 51T75523W01 | TL5001 |
| IC803 | 51T65483W02 | PQ05SZ51 |
| IC901 | 51T65249W01 | NJM2235M |
| IC902 | 51T85451W01 | TA8795BF |
| IC903 | 51T85419W01 | NJM2267M |
| IC904 | 51T85419W01 | NJM2267M |
| Transistors | | |
| Q201 | 48T63417F01 | CP., 2SC2412K |
| Q401 | 48T62967F04 | CP., DTC144K |
| Q402 | 48T62967F21 | CP., DTC124TK |
| Q403 | 48T62967F21 | CP., DTC124TK |
| Q404 | 48T63417F01 | CP., 2SC2412K |
| Q405 | 48T62967F23 | CP., DTC143TK |
| Q407 | 48T63417F01 | CP., 2SC2412K |
| Q408 | 48T62967F23 | CP., DTC143TK |
| Q801 | 48T15511W02 | CP., 2SB1261 |
| Q802 | 48T62967F23 | CP., DTC143TK |
| Q803 | 48T15511W02 | CP., 2SB1261 |
| Q804 | 48T62967F23 | CP., DTC143TK |
| Q805 | 48T62966F02 | CP., DTA114 |
| Q806 | 48T85527W01 | CP., 2SB952A |
| Q807 | 48T73023F01 | CP., 2SD874A |
| Q901 | 48T63417F01 | CP., 2SC2412K |
| Q902 | 48T63420F01 | CP., 2SA1037K |
| Q903 | 48T63417F01 | CP., 2SC2412K |
| Q904 | 48T63417F01 | CP., 2SC2412K |
| Q905 | 48T63417F01 | CP., 2SC2412K |
| Q906 | 48T63417F01 | CP., 2SC2412K |
| Q907 | 48T62967F09 | CP., DTC114TK |
| Q908 | 48T62967F09 | CP., DTC114TK |

| Symbol No. | Part No. | Description |
|----------------|-------------|--------------------------------------|
| Diodes | | |
| D401 | 48T15512W01 | CP., DSM10 |
| D402 | 48T15702W01 | CP., SB05-05CP |
| D403 | 48T15702W01 | CP., SB05-05CP |
| D802 | 48T15512W01 | CP., DSM10 |
| D803 | 48T75066W01 | CP., F2J4S |
| ZD802 | 48T62934F35 | Zener, CP. RD8.2MB3 |
| Coils | | |
| L801 | 25C40894G10 | Choke Filter |
| L804 | 24T75266W09 | Inductor, 47μH |
| L902 | 24T75195W48 | Inductor, CP. 68μH |
| L903 | 24T75195W48 | Inductor, CP. 68μH |
| L904 | 24T75195W44 | Inductor, CP. 33μH |
| Crystal | | |
| X901 | 91T94641F02 | 3.579545MHz |
| X902 | 91T94641F22 | 4.433619MHz |
| X903 | 91T85054W02 | CER. Lock, CP. CSBF503JF560 (512KHz) |
| Filters | | |
| Z801 | 91T55325W08 | CP., NFM61RH20T332 |
| Z901 | 91T85504W01 | CP., FST (2.3MHz) |
| Surge Absorber | | |
| ZNR801 | 48T85018W01 | 6KA24L |
| Capacitors | | |
| C201 | 08S65128F10 | CP., 8pF |
| E201 | 23T75478W15 | ELY., 10μF / 16V |
| C202 | 08S65128F27 | CP., 47pF |
| E202 | 23T75478W15 | ELY., 10μF / 16V |
| C203 | 08S65128F27 | CP., 47pF |
| E203 | 23T75478W15 | ELY., 10μF / 16V |
| C204 | 08S65128F10 | CP., 8pF |
| E204 | 23T75478W15 | ELY., 10μF / 16V |
| C205 | 08S65128F76 | CP., 0.1μF |

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| Symbol No. | Part No. | Description | Symbol No. | Part No. | Description |
|------------|-------------|---------------------------|------------|-------------|-----------------------------|
| E205 | 23T75478W15 | ELY., 10 μ F / 16V | C912 | 08S82122F13 | CP., 10pF |
| C206 | 08S65128F76 | CP., 0.1 μ F | E912 | 23T75478W15 | ELY., 10 μ F / 16V |
| E206 | 23T75478W19 | ELY., 100 μ F / 16V | C913 | 08S65128F72 | CP., 0.022 μ F |
| E207 | 23T75478W16 | ELY., 22 μ F / 16V | E913 | 23T75478W37 | ELY., 1 μ F / 50V |
| E208 | 23T75478W15 | ELY., 10 μ F / 16V | C914 | 08S82122F16 | CP., 13pF |
| E209 | 23T75478W33 | ELY., 0.1 μ F / 50V | E914 | 23T75478W15 | ELY., 10 μ F / 16V |
| E210 | 23T75478W16 | ELY., 22 μ F / 16V | C915 | 08S65128F69 | CP., 0.01 μ F |
| E401 | 23T75478W37 | ELY., 1 μ F / 50V | E915 | 23T75478W37 | ELY., 1 μ F / 50V |
| E402 | 23T75478W37 | ELY., 1 μ F / 50V | C916 | 08S65128F72 | CP., 0.022 μ F |
| C801 | 08S65128F76 | CP., 0.1 μ F | E916 | 23T75478W38 | ELY., 2.2 μ F / 50V |
| E801 | 23T75479W63 | ELY., 2200 μ F / 16V | C917 | 08S65128F12 | CP., 10pF |
| E802 | 23T75478W15 | ELY., 10 μ F / 16V | C918 | 08S65128F17 | CP., 18pF |
| C803 | 08S65128F76 | CP., 0.1 μ F | E918 | 23T75478W15 | ELY., 10 μ F / 16V |
| E803 | 23T75478W15 | ELY., 10 μ F / 16V | C919 | 08S65128F69 | CP., 0.01 μ F |
| C804 | 08S65128F76 | CP., 0.1 μ F | C920 | 08S65128F76 | CP., 0.1 μ F |
| C807 | 08S65128F76 | CP., 0.1 μ F | E920 | 23T75478W15 | ELY., 10 μ F / 16V |
| E807 | 23T75479W27 | ELY., 470 μ F / 16V | C921 | 08S65128F69 | CP., 0.01 μ F |
| C808 | 08S65128F76 | CP., 0.1 μ F | E921 | 23T75478W19 | ELY., 100 μ F / 16V |
| E808 | 23T75479W63 | ELY., 2200 μ F / 16V | C922 | 08S65128F69 | CP., 0.01 μ F |
| C809 | 08S65128F76 | CP., 0.1 μ F | E922 | 23T75478W40 | ELY., 4.7 μ F / 50V |
| E809 | 23T75479W63 | ELY., 2200 μ F / 16V | C923 | 08S65128F69 | CP., 0.01 μ F |
| E811 | 23T75478W15 | ELY., 10 μ F / 16V | E923 | 23T75478W16 | ELY., 22 μ F / 16V |
| E812 | 23T75478W18 | ELY., 47 μ F / 16V | C924 | 08S65128F69 | CP., 0.01 μ F |
| C813 | 08S65128F76 | CP., 0.1 μ F | E924 | 23T75478W19 | ELY., 100 μ F / 16V |
| E813 | 23T75478W15 | ELY., 10 μ F / 16V | C925 | 08S65128F76 | CP., 0.1 μ F |
| E814 | 23S55311W51 | CP., TAN. 1 μ F / 25V | E925 | 23T75478W40 | ELY., 4.7 μ F / 50V |
| E815 | 23T75479W27 | ELY., 470 μ F / 16V | C926 | 08S65128F76 | CP., 0.1 μ F |
| C901 | 08S65128F76 | CP., 0.1 μ F | E926 | 23T75478W16 | ELY., 22 μ F / 16V |
| E901 | 23T75478W20 | ELY., 220 μ F / 16V | E927 | 23T75478W19 | ELY., 100 μ F / 16V |
| C902 | 08S65128F21 | CP., 27pF | E928 | 23T75478W19 | ELY., 100 μ F / 16V |
| E902 | 23T75478W20 | ELY., 220 μ F / 16V | E929 | 23T75478W40 | ELY., 4.7 μ F / 50V |
| C903 | 08S65128F69 | CP., 0.01 μ F | E930 | 23T75478W16 | ELY., 22 μ F / 16V |
| E903 | 23T75478W16 | ELY., 22 μ F / 16V | E931 | 23T75478W19 | ELY., 100 μ F / 16V |
| C904 | 08S65128F69 | CP., 0.01 μ F | E932 | 23T75478W40 | ELY., 4.7 μ F / 50V |
| E904 | 23T75478W16 | ELY., 22 μ F / 16V | E933 | 23T75478W16 | ELY., 22 μ F / 16V |
| C905 | 08S65128F69 | CP., 0.01 μ F | E934 | 23T75478W19 | ELY., 100 μ F / 16V |
| E905 | 23T75478W19 | ELY., 100 μ F / 16V | E935 | 23T75478W15 | ELY., 10 μ F / 16V |
| C906 | 08S65128F69 | CP., 0.01 μ F | C997 | 23S82372F18 | ELY., (B.P) 1 μ F / 50V |
| E906 | 23T75478W15 | ELY., 10 μ F / 16V | C999 | 23S82372F18 | ELY., (B.P) 1 μ F / 50V |
| C907 | 08S65128F69 | CP., 0.01 μ F | | | |
| E907 | 23T75478W15 | ELY., 10 μ F / 16V | | | |
| C908 | 08S65128F28 | CP., 51pF | | | |
| E908 | 23T75478W15 | ELY., 10 μ F / 16V | | | |
| C909 | 08S65128F20 | CP., 24pF | | | |
| E909 | 23T75478W37 | ELY., 1 μ F / 50V | | | |
| C910 | 08S65128F72 | CP., 0.022 μ F | | | |
| E910 | 23T75478W37 | ELY., 1 μ F / 50V | | | |
| C911 | 08S65128F69 | CP., 0.01 μ F | | | |
| E911 | 23T75478W15 | ELY., 10 μ F / 16V | | | |

| Resistors | | |
|-----------|-------------|---------|
| R201 | 06S64995F84 | 20K ohm |
| R202 | 06S64995F84 | 20K ohm |
| R203 | 06S64995F84 | 20K ohm |
| R204 | 06S64995F77 | 10K ohm |
| R205 | 06S64995F77 | 10K ohm |
| R206 | 06S64995F84 | 20K ohm |

(All resistors are chip 1/10W \pm 5% unless otherwise noted.)

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| Symbol No. | Part No. | Description | Symbol No. | Part No. | Description |
|------------|-------------|---------------|------------|-------------|--------------|
| R207 | 06S64995F84 | 20K ohm | R827 | 06S70072F32 | 130 ohm 1/4W |
| R208 | 06S64995F84 | 20K ohm | R903 | 06S64995F26 | 75 ohm |
| R209 | 06S64995F84 | 20K ohm | R904 | 06S64995F26 | 75 ohm |
| R210 | 06S64995F77 | 10K ohm | R905 | 06S64995F29 | 100 ohm |
| R211 | 06S64995F77 | 10K ohm | R907 | 06S64995F84 | 20K ohm |
| R213 | 06S64996F02 | 100K ohm | R908 | 06S64995F84 | 20K ohm |
| R214 | 06S64995F53 | 1K ohm | R909 | 06S64995F53 | 1K ohm |
| R215 | 06S64995F53 | 1K ohm | R910 | 06S64995F53 | 1K ohm |
| R216 | 06S64995F89 | 33K ohm | R911 | 06S64995F41 | 330 ohm |
| R217 | 06S64995F93 | 47K ohm | R912 | 06S64995F53 | 1K ohm |
| R218 | 06S64995F45 | 470 ohm | R913 | 06S64995F47 | 560 ohm |
| R219 | 06S64995F53 | 1K ohm | R914 | 06S64995F47 | 560 ohm |
| R401 | 06S64995F69 | 4.7K ohm | R915 | 06S64995F53 | 1K ohm |
| R402 | 06S64995F93 | 47K ohm | R916 | 06S64995F77 | 10K ohm |
| R403 | 06S64995F77 | 10K ohm | R917 | 06S64995F77 | 10K ohm |
| R404 | 06S64995F69 | 4.7K ohm | R918 | 06S64995F77 | 10K ohm |
| R405 | 06S64995F53 | 1K ohm | R919 | 06S64995F77 | 10K ohm |
| R406 | 06S64995F84 | 20K ohm | R921 | 06S64995F97 | 68K ohm |
| R407 | 06S64995F53 | 1K ohm | R922 | 06S64995F76 | 9.1K ohm |
| R408 | 06S64995F61 | 2.2K ohm | R923 | 06S64995F92 | 43K ohm |
| R409 | 06S64996F02 | 100K ohm | R924 | 06S64995F77 | 10K ohm |
| R410 | 06S64995F84 | 20K ohm | R925 | 06S64995F97 | 68K ohm |
| R411 | 06S64995F93 | 47K ohm | R926 | 06S64995F64 | 3K ohm |
| R412 | 06S64995F81 | 15K ohm | R927 | 06S64995F53 | 1K ohm |
| R413 | 06S64995F93 | 47K ohm | R928 | 06S64995F91 | 39K ohm |
| R414 | 06S64995F84 | 20K ohm | R929 | 06S64995F91 | 39K ohm |
| R415 | 06S64995F81 | 15K ohm | R930 | 06S64995F91 | 39K ohm |
| R801 | 06S64995F77 | 10K ohm | R931 | 06S64995F93 | 47K ohm |
| R802 | 06S70072F63 | 2.7K ohm 1/4W | R932 | 06S64995F55 | 1.2K ohm |
| R803 | 06S70072F63 | 2.7K ohm 1/4W | R933 | 06S64996F05 | 130K ohm |
| R804 | 06S64995F79 | 12K ohm | R934 | 06S64995F77 | 10K ohm |
| R805 | 06S64995F77 | 10K ohm | R935 | 06S64995F77 | 10K ohm |
| R806 | 06S70072F63 | 2.7K ohm 1/4W | R936 | 06S64995F77 | 10K ohm |
| R807 | 06S70072F63 | 2.7K ohm 1/4W | R937 | 06S64995F77 | 10K ohm |
| R808 | 06S64995F79 | 12K ohm | R938 | 06S64995F77 | 10K ohm |
| R809 | 06S70072F53 | 1K ohm 1/4W | R939 | 06S64996F35 | 5.6M ohm |
| R810 | 06S70072F53 | 1K ohm 1/4W | R940 | 06S64995F43 | 390 ohm |
| R811 | 06S64995F61 | 2.2K ohm | R941 | 06S64995F61 | 2.2K ohm |
| R812 | 06S64996F10 | 220K ohm | R942 | 06S64995F70 | 5.1K ohm |
| R813 | 06S64995F71 | 5.6K ohm | R943 | 06S64995F77 | 10K ohm |
| R814 | 06S64995F98 | 75K ohm | R944 | 06S64996F35 | 5.6M ohm |
| R815 | 06S64995F96 | 62K ohm | R945 | 06S64995F53 | 1K ohm |
| R816 | 06S64995F88 | 30K ohm | R946 | 06S64996F35 | 5.6M ohm |
| R817 | 06S64995F70 | 5.1K ohm | R947 | 06S64995F51 | 820 ohm |
| R818 | 06S70072F49 | 680 ohm 1/4W | R948 | 06S64995F84 | 20K ohm |
| R820 | 06S70072F32 | 130 ohm 1/4W | R949 | 06S64995F84 | 20K ohm |
| R821 | 06S70072F32 | 130 ohm 1/4W | R950 | 06S64995F77 | 10K ohm |
| R822 | 06S70072F32 | 130 ohm 1/4W | R951 | 06S64995F53 | 1K ohm |
| R826 | 06S64995F05 | 10 ohm | R953 | 06S64995F75 | 8.2K ohm |

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| Symbol No. | Part No. | Description | Symbol No. | Part No. | Description |
|---------------|-------------|---|------------|----------|-------------|
| R958 | 06S64995F85 | 22K ohm | | | |
| R959 | 06S64995F85 | 22K ohm | | | |
| R960 | 06S64995F53 | 1K ohm | | | |
| R961 | 06S64995F84 | 20K ohm | | | |
| R962 | 06S64995F55 | 1.2K ohm | | | |
| R963 | 06S64995F88 | 30K ohm | | | |
| R964 | 06S64995F64 | 3K ohm | | | |
| R965 | 06S64995F77 | 10K ohm | | | |
| R966 | 06S64995F84 | 20K ohm | | | |
| R967 | 06S64995F85 | 22K ohm | | | |
| R968 | 06S64995F53 | 1K ohm | | | |
| VR901 | 18T45357W13 | Variable, CP. 10K ohm | | | |
| VR902 | 18T45357W13 | Variable, CP. 10K ohm | | | |
| VR903 | 18T45357W13 | Variable, CP. 10K ohm | | | |
| VR904 | 18T45357W13 | Variable, CP. 10K ohm | | | |
| VR905 | 18T45357W13 | Variable, CP. 10K ohm | | | |
| Miscellaneous | | | | | |
| ET801 | 09T25842W08 | Power Supply Connector | | | |
| ET901 | 09T85443W01 | 16P Connector (To Monitor Unit) | | | |
| JK201 | 09T75320W01 | RCA Jack, NAVIGATION IN | | | |
| JK202 | 09T75321W01 | RCA Jack, VCR IN | | | |
| S201 | 40T94668F03 | Slide Switch, SSSF1214 (ATTENUATOR HIGH/LOW) | | | |
| VR906 | 18T55389W06 | Rotary Volume, 50K ohm (COLOR) | | | |
| VR907 | 18T55389W06 | Rotary Volume, 50K ohm (TINT) | | | |
| VR908 | 18T55389W06 | Rotary Volume, 50K ohm (BRIGHT) | | | |

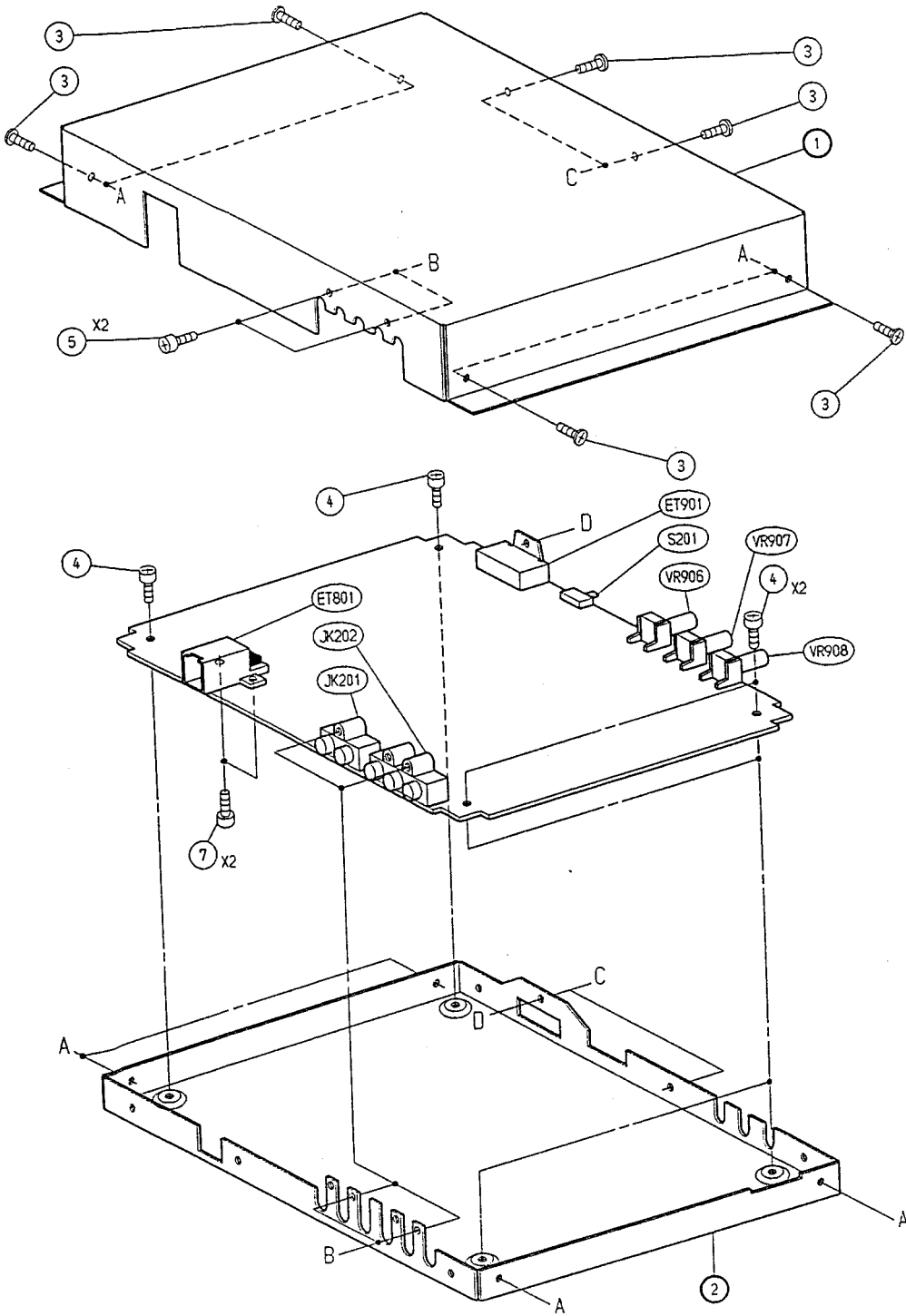
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Exploded View (Cabinet)

Cabinet Assembly Parts List

NOTE: No parts number on parts list are not supplied.

| Symbol No. | Index | Part No. | Description |
|------------|-------|-------------|------------------------|
| 3 | | 03S38013W33 | Screw, Flat (M2.6X5) |
| 4 | | 03S44205G48 | Screw, Pan (M2.6X5) |
| 5 | | 03S68555F42 | Screw, Pan (M3X6) |
| 7 | | 03S63857F51 | Screw, Tapping (M3X10) |



Monitor Unit

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Specifications

| | |
|----------------------------|---|
| Screen Size | 6-type |
| Display System | Low reflection rear projection type TN liquid crystal panel |
| Drive System | Active matrix drive, normally white display |
| Number of Picture Elements | 228, 480 pcs. NTSC (H : 960×V : 238 dots) 230, 400 pcs. PAL (H : 960×V : 240 dots) |
| Light Source | Internal optical system (U-type cold cathode fluorescent tube) |
| Semiconductors | 9 IC's, 17 Transistors, 3 Diodes, 4 Zener Diodes |
| Dimensions (W×H×D) | 171×127×33mm |
| Weight | 510g |

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.

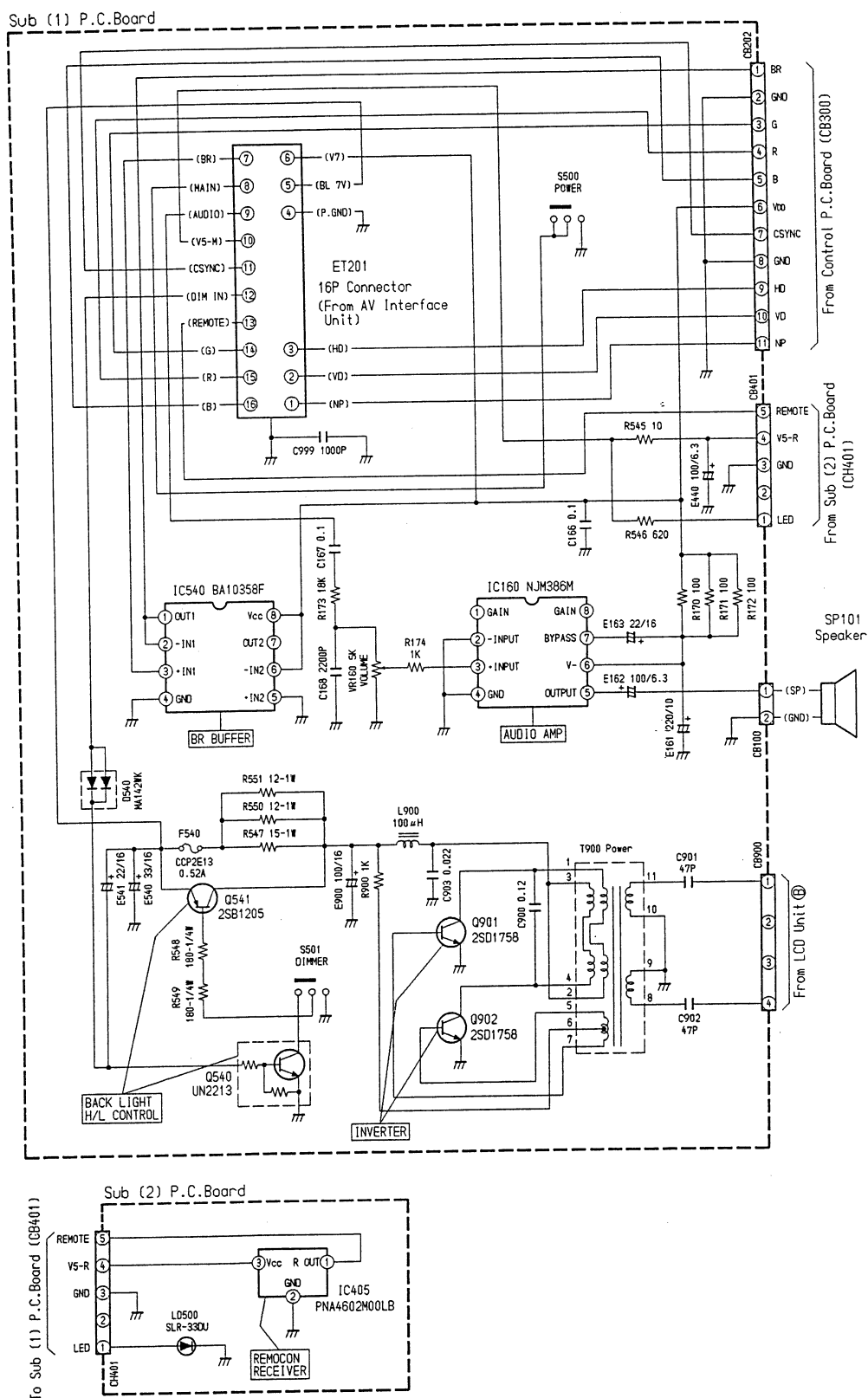
Adjustment Procedures

1) Preparation for adjustments

- ① Connect the AV interface unit to the Monitor unit .
- ② Connect the DC voltage regulator power supply of $14.4 \pm 0.1\text{V}$ to the power supply connector (ET801).
- ③ Set each switch of the AV interface unit to the following position.
 - ATTENUATOR switch (S201) [LOW]
 - Volume, COLOR (VR906) / TINT (VR907) / BRIGHT (VR908) [Center Position]Set each switch of the Monitor unit to the following position.
 - Main POWER Switch (S500) [STAND BY]
 - DIMMER Switch (S501) [HIGH]
- ④ Supply the composite video signal (color bar signal including 100% white) to the VIDEO input terminal (JK202-1) on the AV interface Unit.

2) Free-run frequency adjustment (VR600) - Screen centering adjustment.

- ① Connect the DC voltmeter (full-scale more than 5V, resolution 10mV) between TP600 (PLL Adjust) and TP311 (GND).
- ② Adjust VR600 until the voltage between TPs above becomes $2.1 \pm 0.1\text{V}$.



TVE-M006P

Terminal Voltage of IC/TR

IC160

| | | |
|---|-------|---------|
| 1 | 1.15V | Vol Min |
| 2 | 0V | |
| 3 | 0V | |
| 4 | 0V | |
| 5 | 3.12V | Vol Min |
| 6 | 6.46V | Vol Min |
| 7 | 3.19V | Vol Min |
| 8 | 1.15V | Vol Min |

IC300

| | | | |
|----|------------|----|------------|
| 1 | 0V | 13 | waveform19 |
| 2 | waveform14 | 14 | waveform20 |
| 3 | 0V | 15 | waveform21 |
| 4 | 1.58V | 16 | waveform22 |
| 5 | 0V | 17 | waveform23 |
| 6 | waveform15 | 18 | waveform24 |
| 7 | 3.92V | 19 | 0V |
| 8 | 0V | 20 | waveform25 |
| 9 | waveform16 | 21 | 4.92V |
| 10 | waveform17 | 22 | 0V |
| 11 | waveform18 | 23 | 4.87V |
| 12 | 0V | 24 | 0V |

IC301

| | |
|---|-------|
| 1 | 4.92V |
| 2 | 0V |
| 3 | 7V |

IC405

| | |
|---|-------|
| 1 | 4.93V |
| 2 | 0V |
| 3 | 4.94V |

IC500

| | |
|---|--------|
| 1 | 2.7V |
| 2 | 2.7V |
| 3 | 2.69V |
| 4 | -5.52V |
| 5 | 2.01V |
| 6 | 2.01V |
| 7 | 0.776V |
| 8 | 6.83V |

IC540

| | | |
|---|-------|--------|
| 1 | 4.76V | BR Min |
| 2 | 4.72V | BR Min |
| 3 | 4.75V | BR Min |
| 4 | 0V | |
| 5 | 0V | |
| 6 | 7V | |
| 7 | 0V | |
| 8 | 7V | |

IC600

| | | | |
|----|------------|----|------------|
| 1 | NC | 15 | 0V |
| 2 | waveform32 | 16 | waveform44 |
| 3 | waveform33 | 17 | waveform45 |
| 4 | waveform34 | 18 | waveform46 |
| 5 | waveform35 | 19 | waveform47 |
| 6 | waveform36 | 20 | waveform48 |
| 7 | waveform37 | 21 | 0V |
| 8 | waveform38 | 22 | 4.92V |
| 9 | waveform39 | 23 | 4.92V |
| 10 | 0V | 24 | 0V |
| 11 | waveform41 | 25 | waveform40 |
| 12 | waveform42 | 26 | waveform49 |
| 13 | waveform43 | 27 | waveform50 |
| 14 | 0V | 28 | 4.92V |

IC501

| | |
|---|-----------|
| 1 | 6.74V |
| 2 | waveform1 |
| 3 | -20.73V |
| 4 | -20.4V |
| 5 | -21.59V |
| 6 | 6.83V |
| 7 | 6.74V |
| 8 | 6.74V |

IC601

| | | | | | | | |
|--------|------------|--------|------------|----|------------|-------|------------|
| 1 | 4.92V | 24 | waveform62 | 51 | 4.92V | 73 | waveform24 |
| 2 | waveform79 | 25 | 0V | 52 | waveform48 | 74 | waveform18 |
| 3 | waveform51 | 26 | 4.92V | 53 | waveform47 | 75 | 0V |
| 4 | waveform80 | 27 | waveform63 | 54 | waveform39 | 76 | 4.92V |
| 5 | 0V | 28 | waveform64 | 55 | waveform38 | 77 | waveform16 |
| 6 | 0V | 29 | waveform65 | 56 | waveform37 | 78 | waveform18 |
| 7 | waveform52 | 30 | 0V | 57 | waveform36 | 79-81 | 5V |
| 8 | waveform53 | 31 | waveform65 | 58 | waveform35 | 82-84 | 4.96V |
| 9 | waveform54 | 32 | waveform66 | 59 | waveform34 | 85 | waveform68 |
| 10 | waveform55 | 33-36 | 4.95V | 60 | waveform33 | 86-88 | 0V |
| 11 | waveform56 | 37 | 4.9V | 61 | waveform32 | 89 | 4.92V |
| 12 | waveform81 | 38, 39 | 4.95V | 62 | waveform50 | 90 | waveform69 |
| 13, 14 | 0V | 40 | 0V | 63 | waveform49 | 91 | waveform70 |
| 15 | 5V | 41, 42 | 4.9V | 64 | 4.92V | 92 | waveform71 |
| 16 | 0V | 43 | waveform40 | 65 | waveform67 | 93 | waveform72 |
| 17 | waveform57 | 44 | waveform41 | 66 | waveform63 | 94 | waveform73 |
| 18 | 0V | 45 | waveform42 | 67 | waveform24 | 95 | waveform74 |
| 19 | waveform58 | 46 | waveform43 | 68 | waveform23 | 96 | waveform75 |
| 20 | waveform59 | 47 | waveform44 | 69 | waveform22 | 97 | waveform76 |
| 21 | waveform60 | 48 | waveform45 | 70 | waveform21 | 98 | waveform77 |
| 22 | waveform61 | 49 | waveform46 | 71 | waveform20 | 99 | waveform78 |
| 23 | 0V | 50 | 0V | 72 | waveform19 | 100 | 0V |

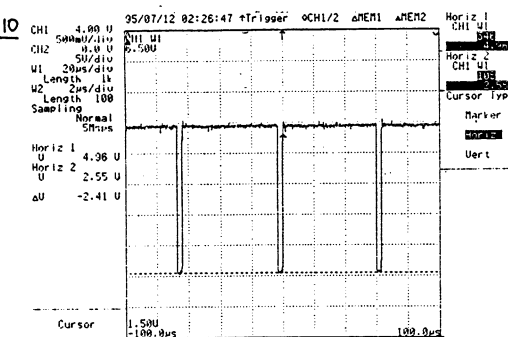
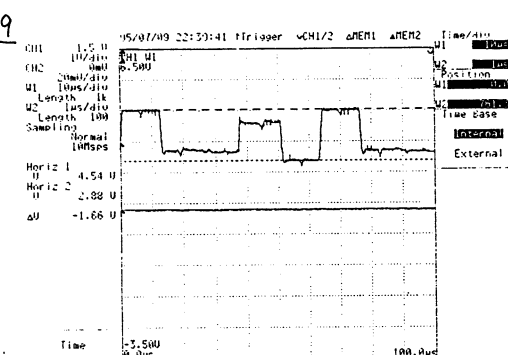
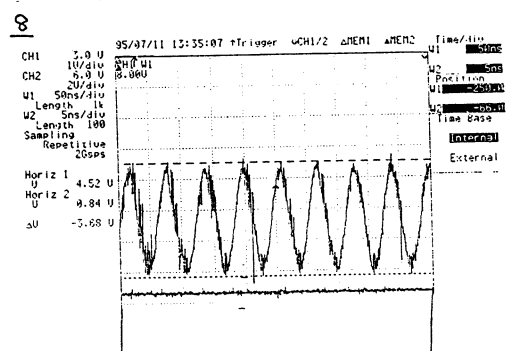
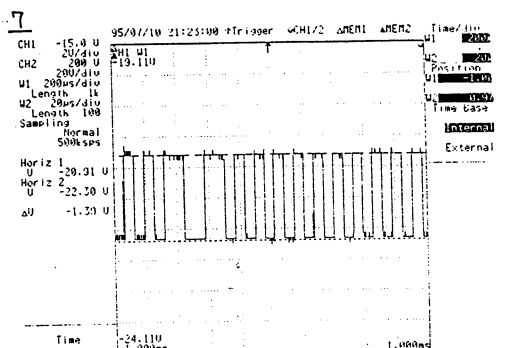
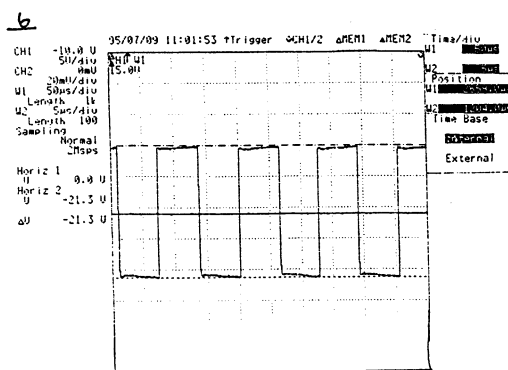
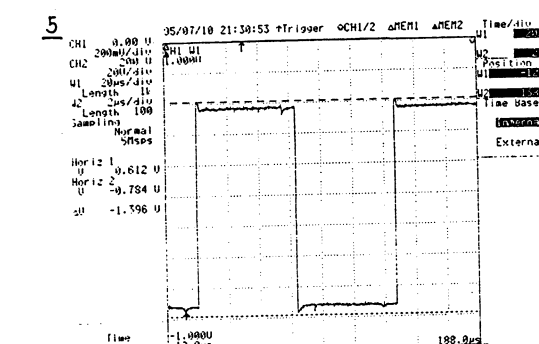
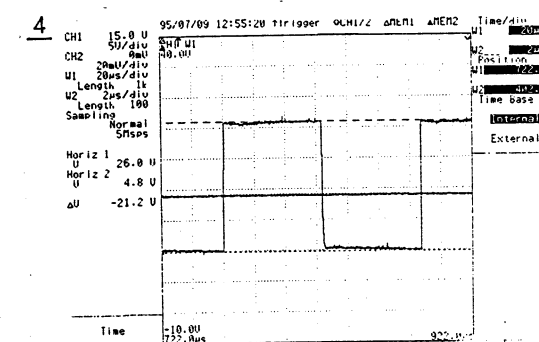
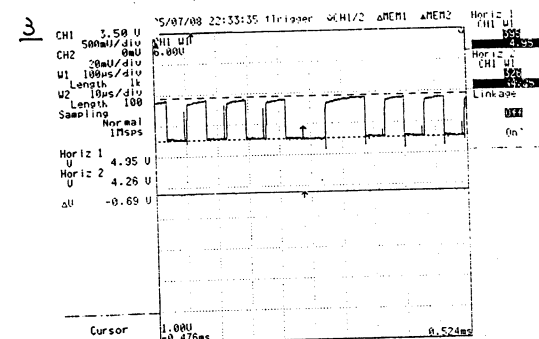
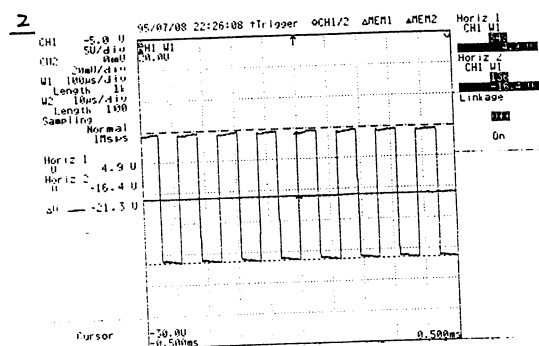
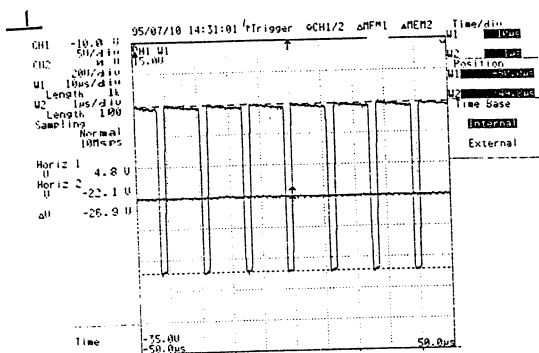
| | E | C | B | MODE |
|------|------------|-----------|------------|-----------|
| Q303 | waveform14 | 0V | waveform9 | |
| Q304 | 1.56V | 0V | waveform11 | |
| Q305 | waveform15 | 0V | 1.8V | |
| Q500 | -5.52V | -21.33V | -6.1V | |
| Q504 | 4.92V | waveform2 | waveform3 | |
| Q540 | 0V | 6.6V | 7V | RL - LOW |
| Q541 | 7.08V | 6.98V | 6.3V | BL - High |

| | 1 | 2 | 3 | 4 | 5 | 6 |
|------|------------|------------|---------|------------|------------|---------|
| Q301 | waveform9 | waveform10 | 3.18V | waveform11 | waveform12 | 3.18V |
| Q302 | 4.86V | waveform13 | 3.18V | 1.8V | 3.79V | 3.18V |
| Q501 | 0.265V | 0V | 0.265V | -21.59V | 0.265V | 0V |
| Q502 | waveform5 | waveform5 | 0V | waveform6 | waveform5 | 0V |
| Q503 | waveform6 | waveform7 | -21.33V | waveform7 | waveform7 | -21.33V |
| Q600 | waveform26 | waveform26 | 4.92V | waveform27 | waveform26 | 4.92V |
| Q601 | waveform28 | waveform28 | 4.92V | waveform29 | waveform28 | 4.92V |
| Q602 | waveform30 | waveform30 | 4.92V | waveform31 | waveform30 | 4.92V |

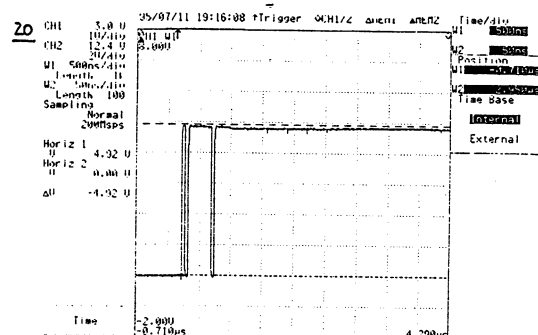
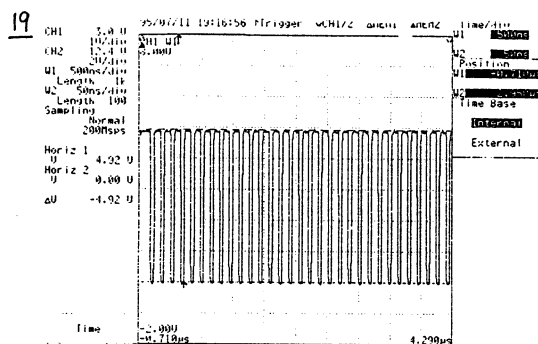
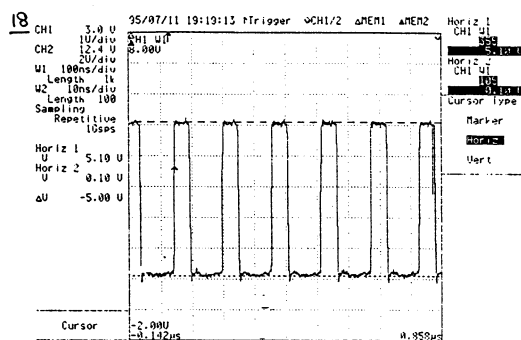
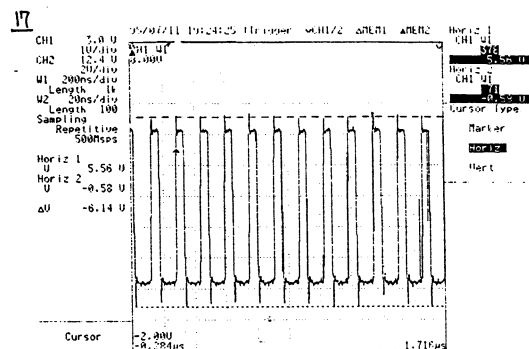
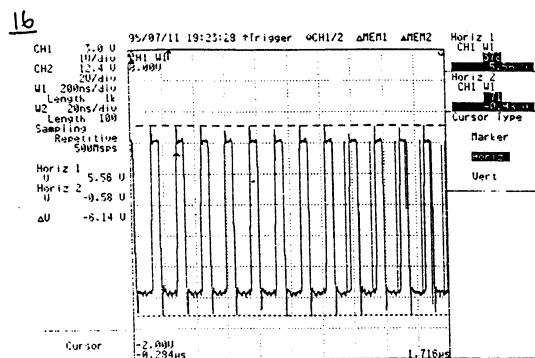
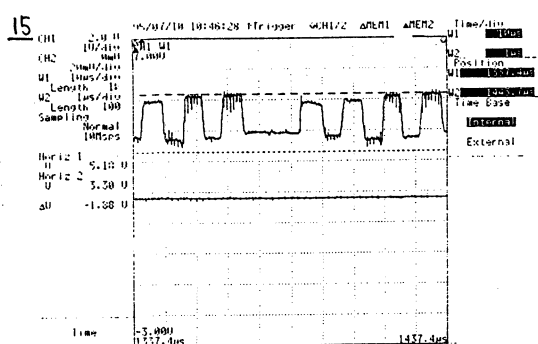
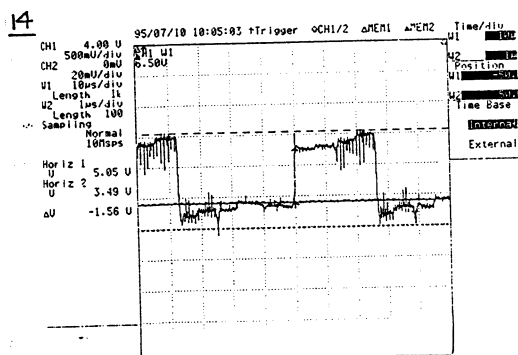
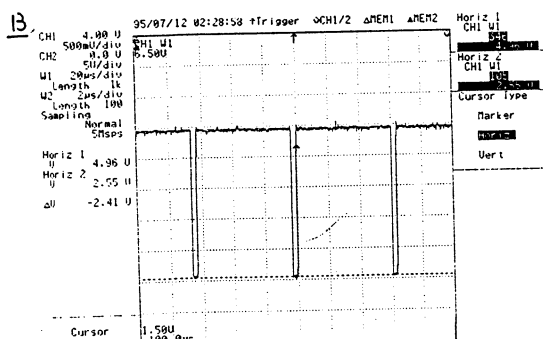
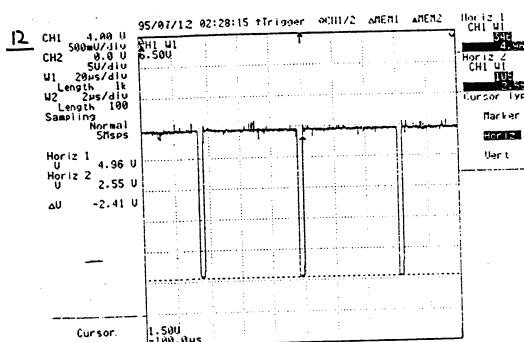
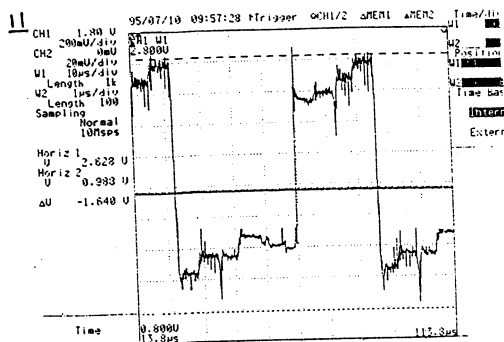
NOTE : For the terminal voltage not mentiond, the voltage indication is omitted for the voltage varies depend on the operation mode.

[Measuring Conditions]

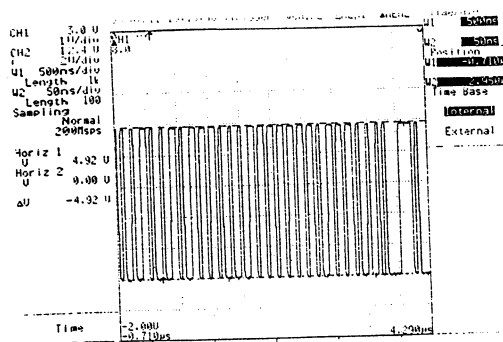
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : AV Interface Unit Connection



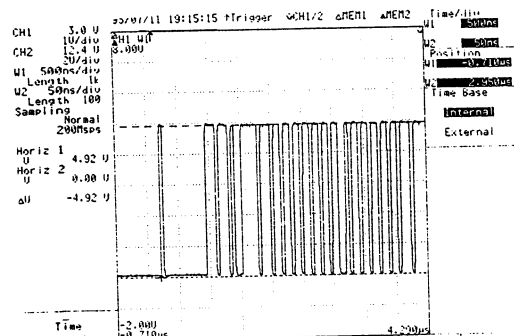
TVE-M006P



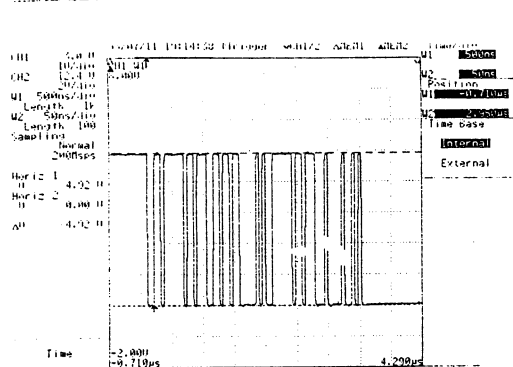
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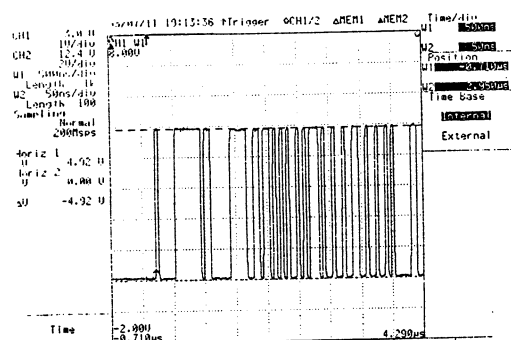
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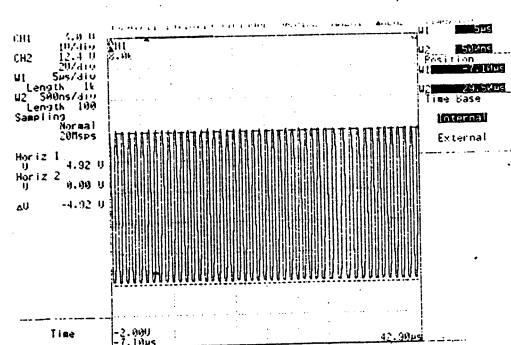
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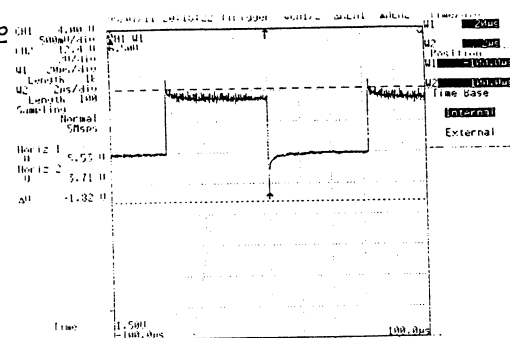
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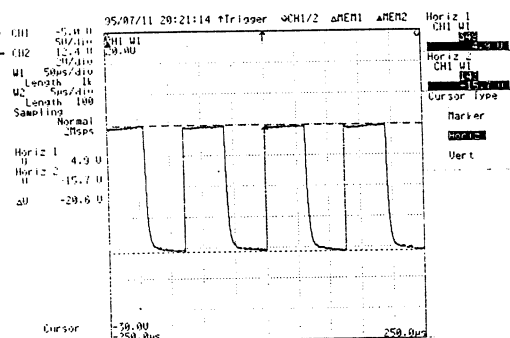
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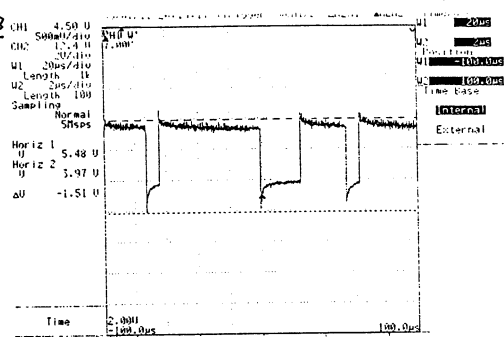
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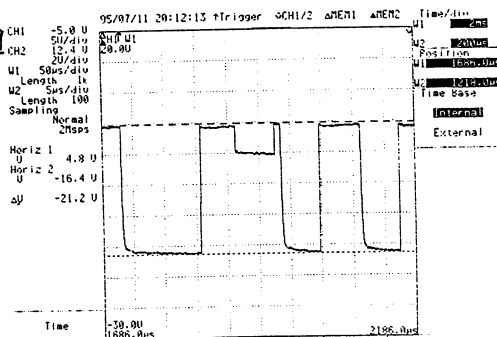
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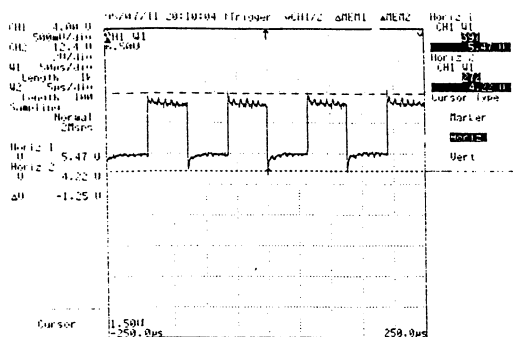
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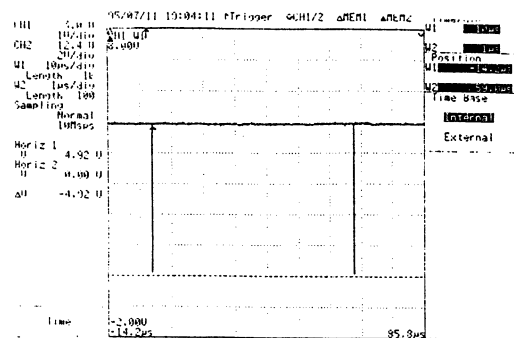
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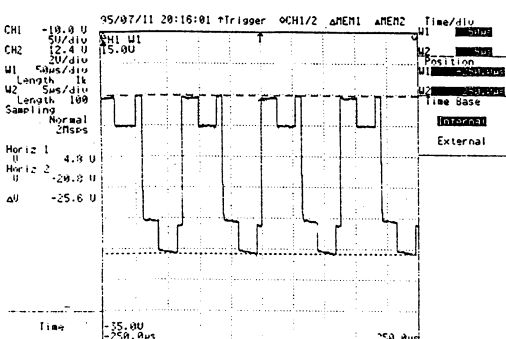
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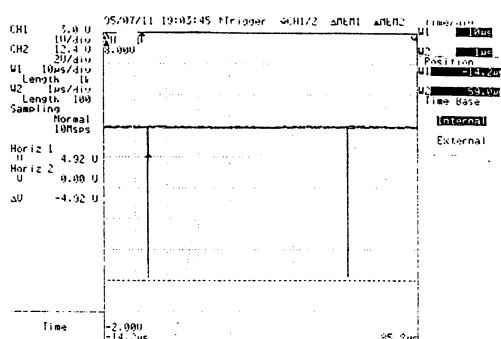
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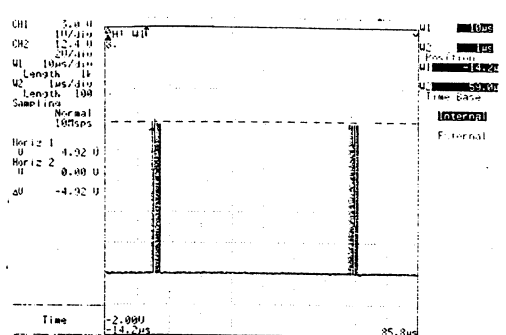
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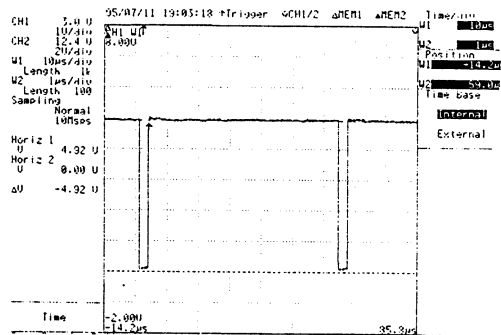
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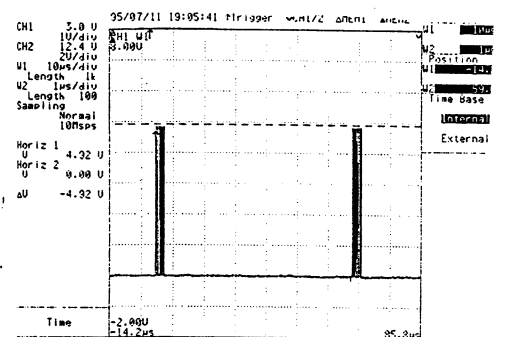
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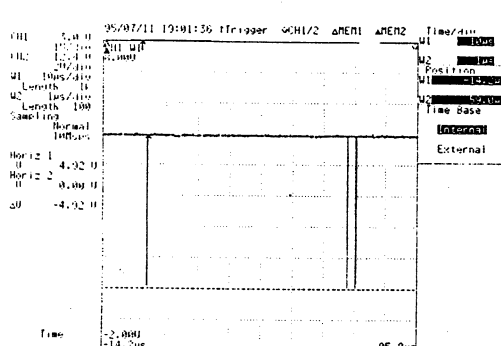
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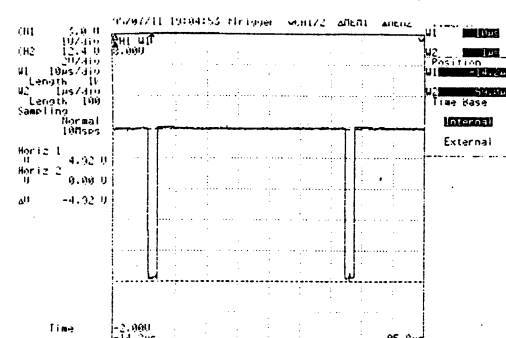
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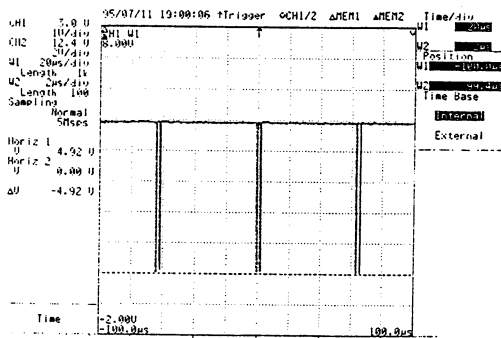
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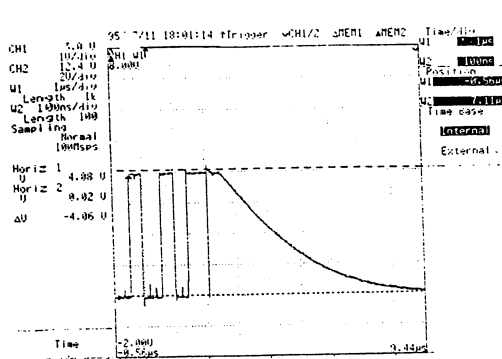
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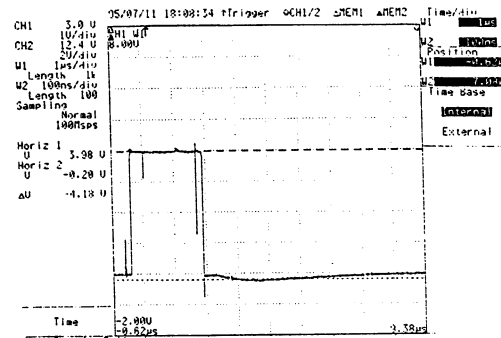
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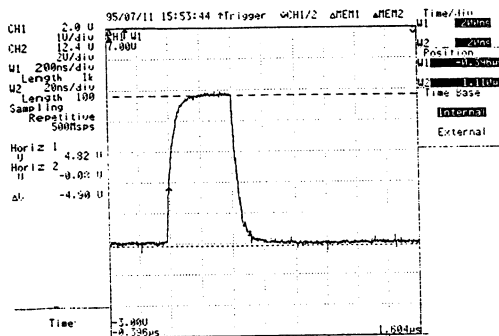
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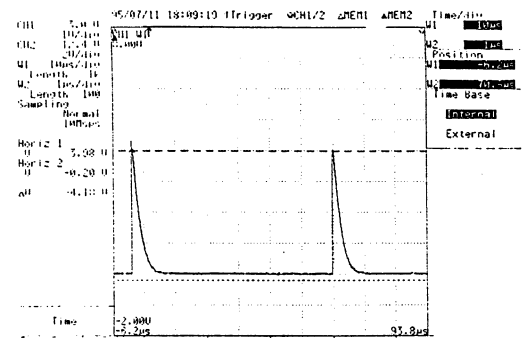
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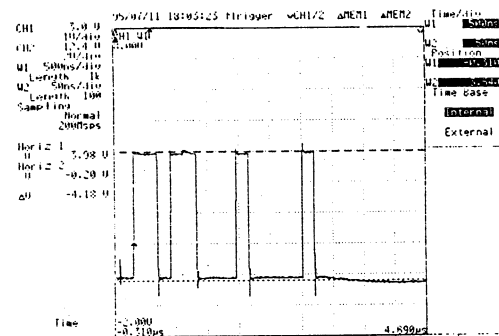
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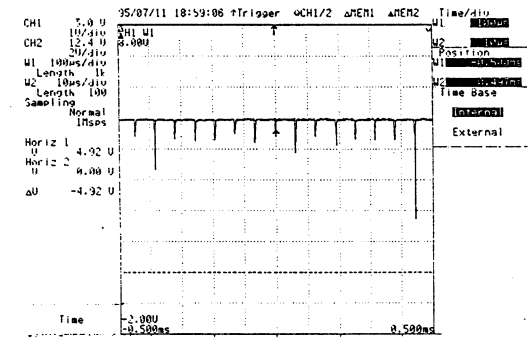
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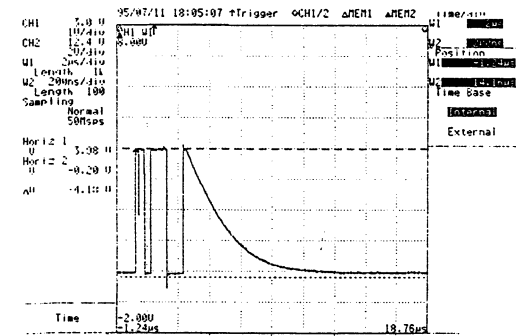
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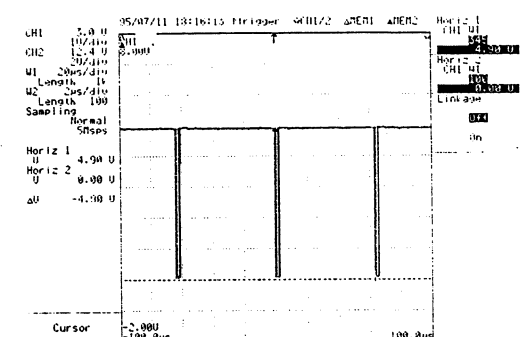
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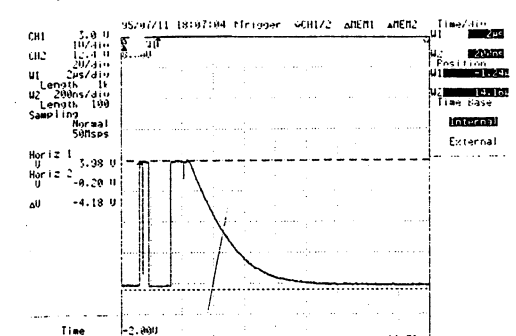
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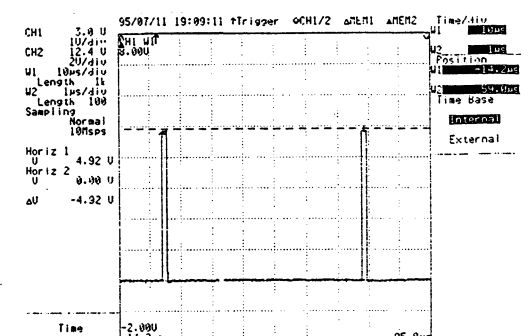
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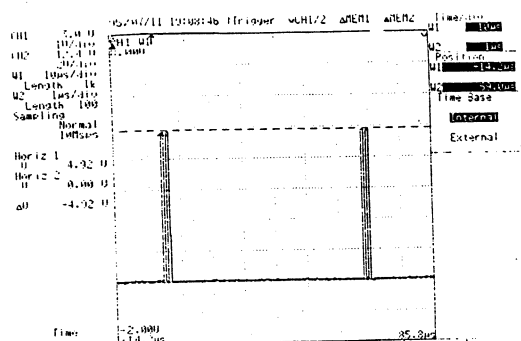
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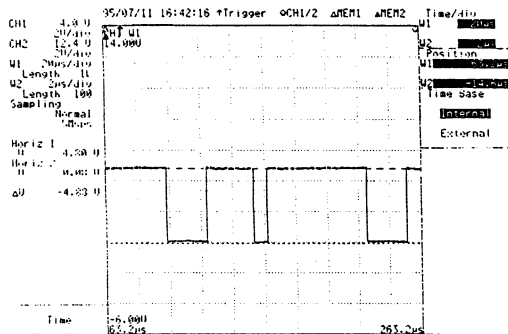
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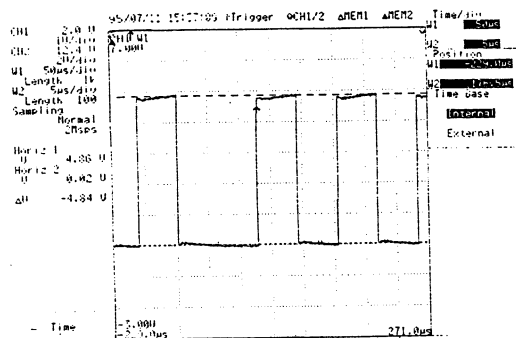
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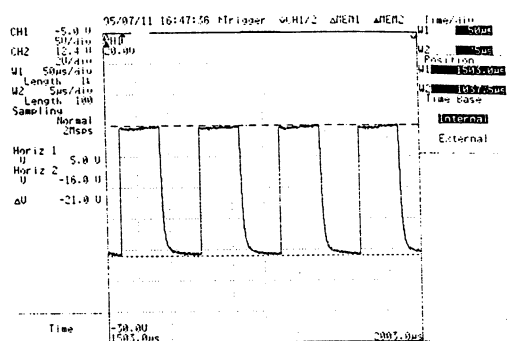
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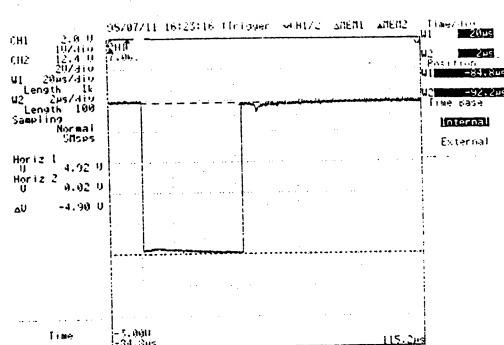
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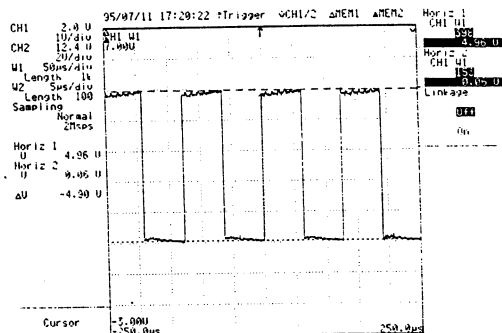
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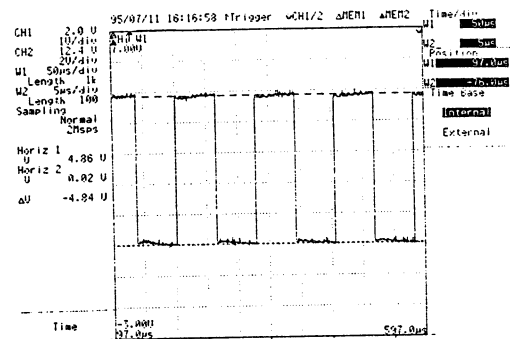
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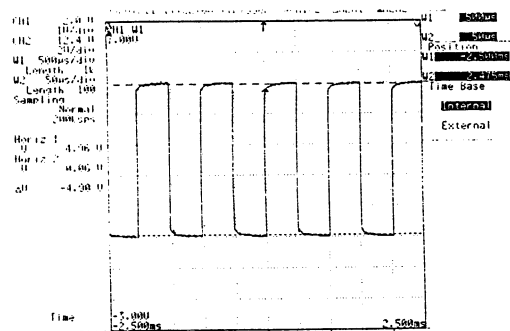
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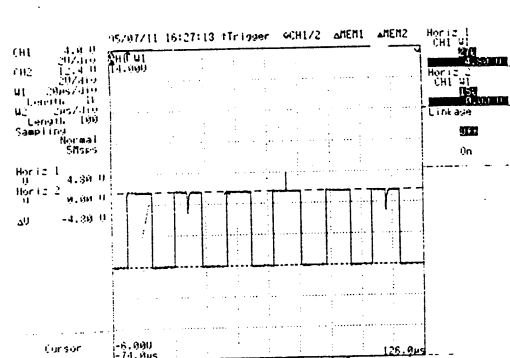
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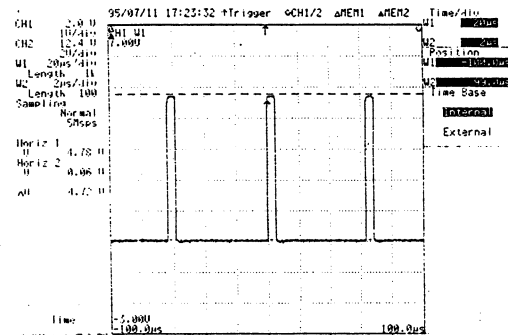
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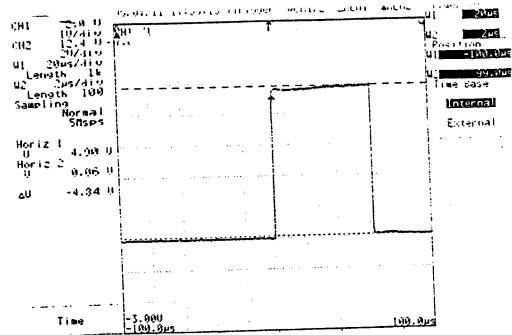
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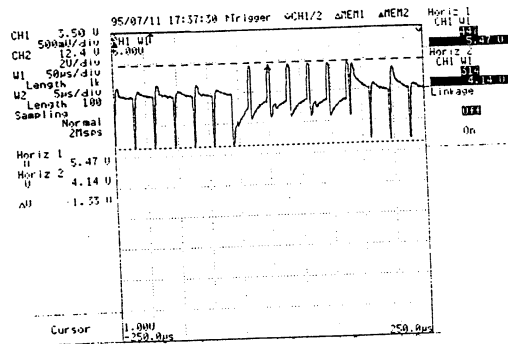
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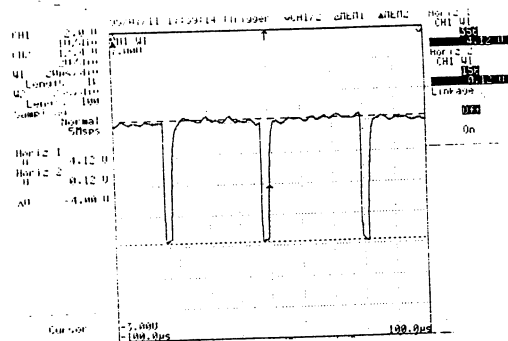
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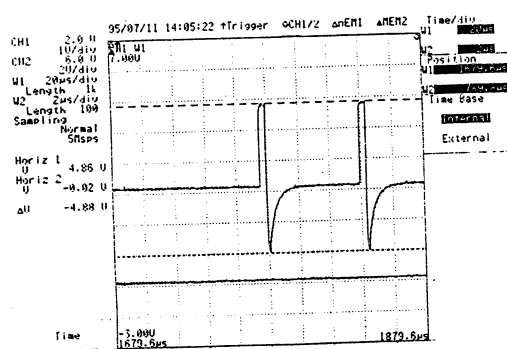
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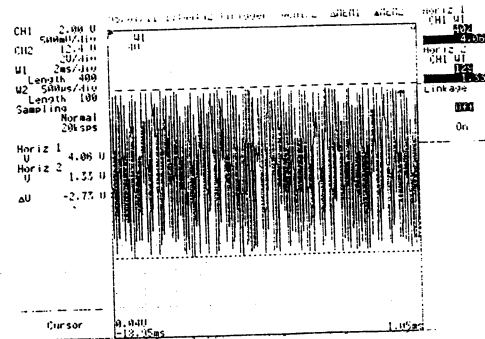
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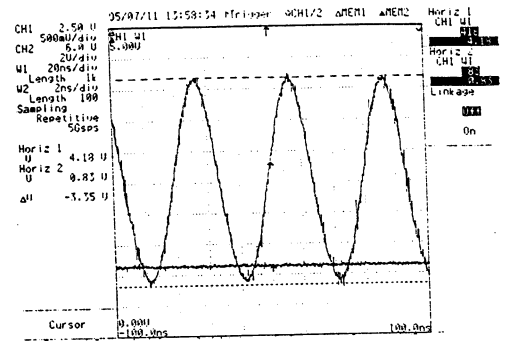
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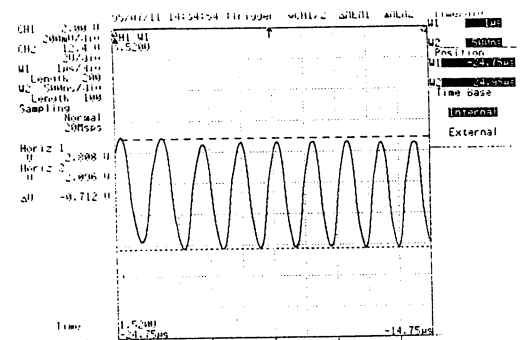
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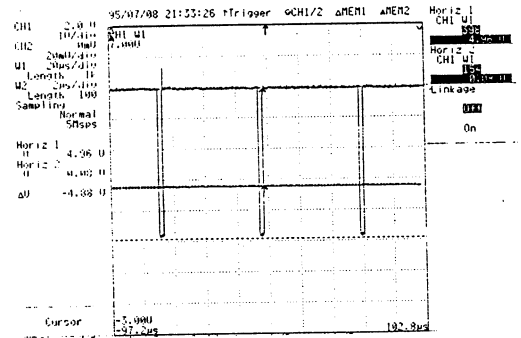
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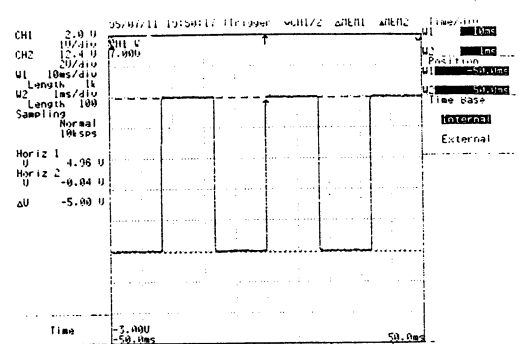
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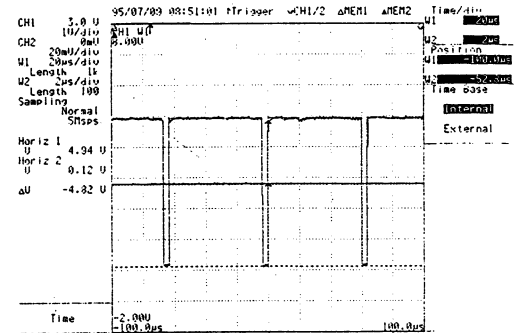
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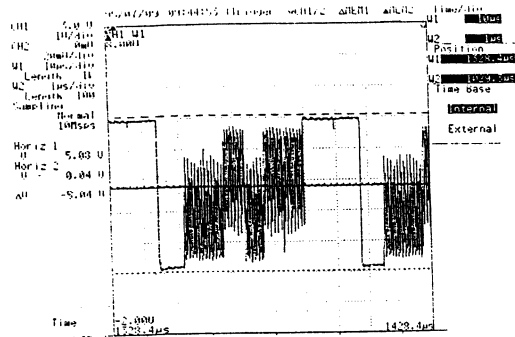


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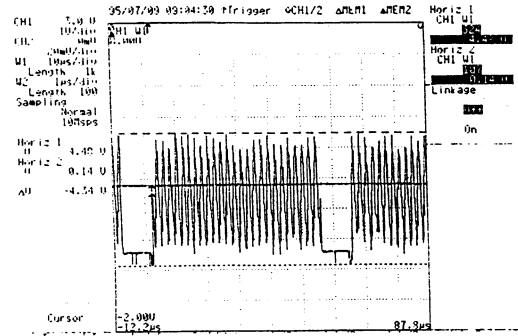


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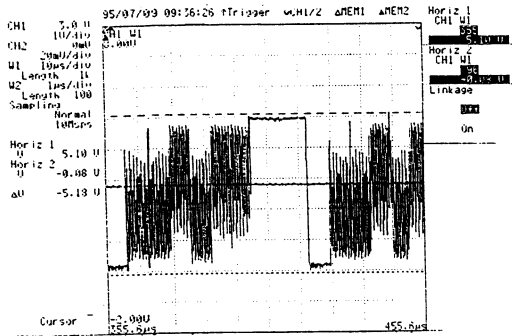
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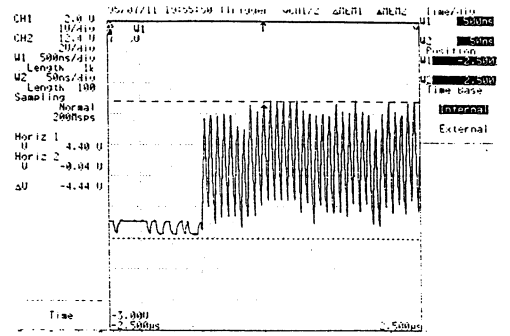
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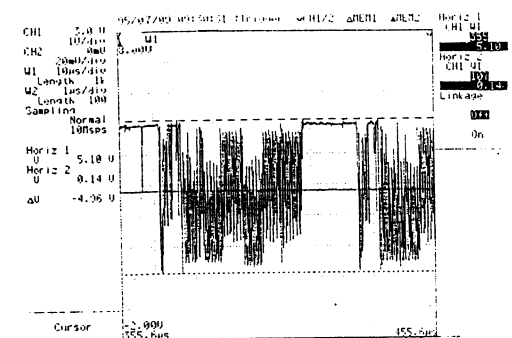
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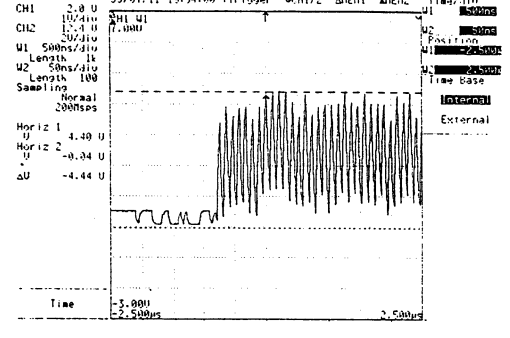
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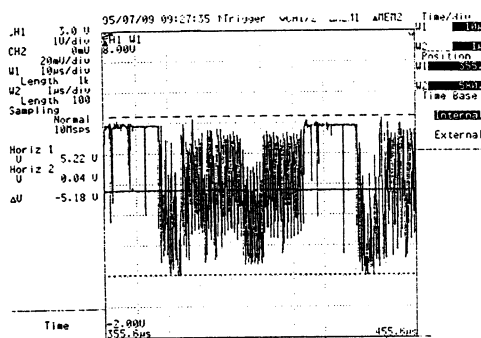
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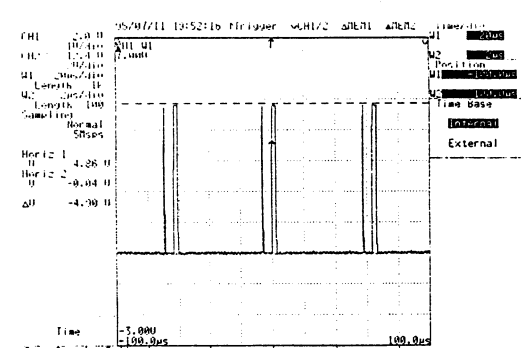
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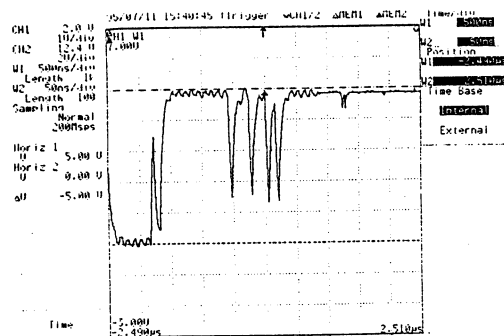
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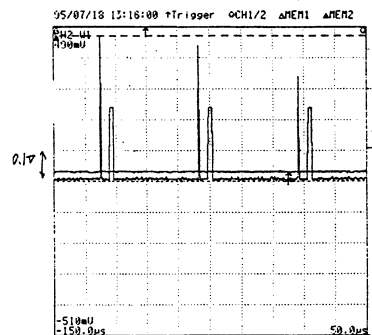
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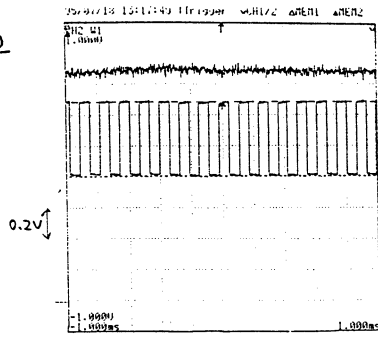
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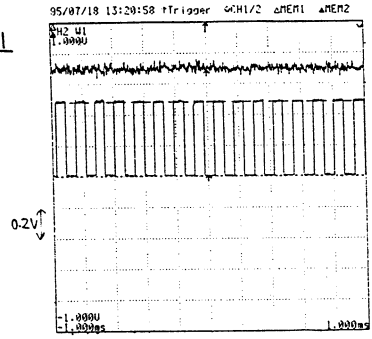
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Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads,pF=picofarads

| Abbreviations | | |
|------------------------|----------------------|--|
| RES.= Resistor | CAP.= Capacitor | |
| C.F.= Carbon Film | ELY.= Electrolytic | |
| M.F.= Metal Film | CER.= Ceramic | |
| M.O.= Metal Oxide Film | MYL.= Mylar | |
| M.P.= Metal Plate | TAN.= Tantalum | |
| TR. = Transistor | POLY.= Polystyrol | |
| TRANS.= Transformer | PP. = Polypropylene | |
| CP. = Chip | PLT.= Polyethylene | |
| | PF. = Polyester Film | |

| Symbol No. | Part No. | Description |
|--------------------|-------------|-------------------------|
| Coils / Thermistor | | |
| L500 | 24E24499S01 | Inductor, 1mH |
| L600 | 24E24500S01 | Inductor, CP. 2.7μH |
| TH500 | 48E24557S01 | Thermistor, CP. 20K ohm |

| Symbol No. | Part No. | Description |
|-------------------|-------------|---------------|
| Control P.C.Board | | |
| IC's | | |
| IC300 | 51E24491S01 | LC7480M |
| IC301 | 51E24494S01 | HA178L05UA |
| IC500 | 51E24245S01 | BA10358F |
| IC501 | 51E24250S01 | M5291FP |
| IC600 | 51E24492S01 | CY7C281A-45JC |
| IC601 | 51E24709S01 | CI5F-002 |

| | | |
|-------------|-------------|--------------|
| Transistors | | |
| Q301 | 48E24501S01 | CP., XN4401 |
| Q302 | 48E24503S01 | CP., XN4601 |
| Q303 | 48E24502S01 | CP., 2SB709A |
| Q304 | 48E24502S01 | CP., 2SB709A |
| Q305 | 48E24502S01 | CP., 2SB709A |
| Q500 | 48E24502S01 | CP., 2SB709A |
| Q501 | 48E24503S01 | CP., XN4601 |
| Q502 | 48E24503S01 | CP., XN4601 |
| Q503 | 48E24503S01 | CP., XN4601 |
| Q504 | 48E24502S01 | CP., 2SB709A |
| Q600 | 48E24503S01 | CP., XN4601 |
| Q601 | 48E24503S01 | CP., XN4601 |
| Q602 | 48E24503S01 | CP., XN4601 |

| | | |
|--------|-------------|---------------------|
| Diodes | | |
| D500 | 48E24504S01 | CP., MA142WK |
| D501 | 48E24510S01 | CP., RB110C |
| ZD500 | 48E24509S01 | Zener, CP. MA3160-H |
| ZD501 | 48E24505S01 | Zener, CP. MA3300-M |
| ZD600 | 48E24506S01 | Zener, CP. MA3033-H |
| ZD601 | 48E24508S01 | Zener, CP. MA3075-H |
| VD600 | 48E24507S01 | Varactor, CP. 1T363 |

| | | |
|------|-------------|------------------------|
| C300 | 08E24547S01 | CP., 0.01μF |
| E300 | 23E24555S01 | ELY., 100μF / 16V |
| E301 | 23E24555S01 | ELY., 100μF / 16V |
| C302 | 08E24540S01 | CP., 1μF |
| E302 | 23E24550S01 | ELY., 100μF / 6.3V |
| C303 | 08E24540S01 | CP., 1μF |
| C304 | 08E24541S01 | CP., 0.33μF |
| C305 | 08E24541S01 | CP., 0.33μF |
| C306 | 08E24541S01 | CP., 0.33μF |
| E306 | 23E24554S01 | ELY., 10μF / 16V |
| C307 | 08E24547S01 | CP., 0.01μF |
| C397 | 23E24556S01 | ELY., (B.P) 10μF / 16V |
| C398 | 23E24556S01 | ELY., (B.P) 10μF / 16V |
| C399 | 23E24556S01 | ELY., (B.P) 10μF / 16V |
| C500 | 08E24544S01 | CP., 470pF |
| C501 | 08E24549S01 | CP., 0.033μF |
| E501 | 23E24553S01 | ELY., 47μF / 16V |
| C502 | 08E24543S01 | CP., 0.1μF |
| E502 | 23E24552S01 | ELY., 22μF / 35V |
| E503 | 23E24552S01 | ELY., 22μF / 35V |
| C504 | 08E24548S01 | CP., 4700pF |
| E504 | 23E24551S01 | ELY., 3.3μF / 50V |
| C505 | 08E24547S01 | CP., 0.01μF |
| E505 | 23E24554S01 | ELY., 10μF / 16V |
| C599 | 23E24556S01 | ELY., (B.P) 10μF / 16V |
| C600 | 08E24541S01 | CP., 0.33μF |
| C601 | 08E24545S01 | CP., 1000pF |
| C602 | 08E24545S01 | CP., 1000pF |
| C603 | 08E24539S01 | CP., 110pF |
| C604 | 08E24546S01 | CP., 0.1μF |
| C605 | 08E24541S01 | CP., 0.33μF |
| C607 | 08E24545S01 | CP., 1000pF |
| C608 | 08E24541S01 | CP., 0.33μF |
| C609 | 08E24545S01 | CP., 1000pF |
| C610 | 08E24545S01 | CP., 1000pF |
| C611 | 08E24545S01 | CP., 1000pF |
| C612 | 08E24545S01 | CP., 1000pF |
| C613 | 08E24541S01 | CP., 0.33μF |
| C614 | 08E24544S01 | CP., 470pF |

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| Symbol No. | Part No. | Description |
|---|-------------|------------------|
| C615 | 08E24544S01 | CP., 470pF |
| C616 | 08E24542S01 | CP., 150pF |
| C617 | 08E24544S01 | CP., 470pF |
| C618 | 08E24540S01 | CP., 1μF |
| C619 | 08E24547S01 | CP., 0.01μF |
| C620 | 08E24547S01 | CP., 0.01μF |
| C621 | 08E24547S01 | CP., 0.01μF |
| (All resistors are chip 1/10W±5% unless otherwise noted.) | | |
| Resistors | | |
| R300 | 06E24513S01 | 1K ohm |
| R302 | 06E24538S01 | 1K ohm 1/16W × 4 |
| R303 | 06E24530S01 | 3.3 ohm |
| R304 | 06E24520S01 | 220 ohm |
| R305 | 06E24520S01 | 220 ohm |
| R306 | 06E24520S01 | 220 ohm |
| R308 | 06E24526S01 | 3.3K ohm |
| R310 | 06E24526S01 | 3.3K ohm |
| R313 | 06E24526S01 | 3.3K ohm |
| R314 | 06E24531S01 | 4.7K ohm |
| R315 | 06E24516S01 | 1.6K ohm |
| R316 | 06E24533S01 | 5.6K ohm |
| R317 | 06E24521S01 | 2.2K ohm |
| R318 | 06E24521S01 | 2.2K ohm |
| R319 | 06E24521S01 | 2.2K ohm |
| R500 | 06E24527S01 | 33K ohm |
| R502 | 06E24518S01 | 18K ohm |
| R503 | 06E24517S01 | 16K ohm |
| R504 | 06E24536S01 | 82K ohm |
| R505 | 06E24528S01 | 3.9K ohm |
| R506 | 06E24527S01 | 33K ohm |
| R507 | 06E24535S01 | 820 ohm |
| R508 | 06E24529S01 | 39K ohm |
| R509 | 06E24534S01 | 680 ohm |
| R510 | 06E24524S01 | 2.2 ohm |
| R511 | 06E24524S01 | 2.2 ohm |
| R512 | 06E24515S01 | 12K ohm |
| R513 | 06E24519S01 | 22 ohm |
| R514 | 06E24531S01 | 4.7K ohm |
| R515 | 06E24535S01 | 820 ohm |
| R516 | 06E24531S01 | 4.7K ohm |
| R600 | 06E24531S01 | 4.7K ohm |
| R601 | 06E24523S01 | 27K ohm |
| R602 | 06E24525S01 | 330 ohm |
| R603 | 06E24532S01 | 47K ohm |
| R604 | 06E24514S01 | 10K ohm |
| R606 | 06E24532S01 | 47K ohm |

| Symbol No. | Part No. | Description |
|---------------------------|-------------|----------------------------|
| R607 | 06E24532S01 | 47K ohm |
| R612 | 06E24519S01 | 22 ohm |
| R613 | 06E24519S01 | 22 ohm |
| R614 | 06E24537S01 | 100 ohm 1/16W × 4 |
| R615 | 06E24530S01 | 3.3 ohm |
| R616 | 06E24521S01 | 2.2K ohm |
| R617 | 06E24522S01 | 2.7K ohm |
| R618 | 06E24522S01 | 2.7K ohm |
| R620 | 06E24512S01 | 100 ohm |
| VR500 | 18E24498S01 | Variable, 10K ohm |
| VR600 | 18E24497S01 | Variable, 50K ohm |
| SUB (1) P.C.Board | | |
| IC's | | |
| IC160 | 51E24280S01 | NJM386M |
| IC540 | 51E24245S01 | BA10358F |
| Transistors | | |
| Q540 | 48E24270S01 | CP., UN2213 |
| Q541 | 48E24679S01 | CP., 2SB1205 |
| Q901 | 48E24289S01 | CP., 2SD1758 |
| Q902 | 48E24289S01 | CP., 2SD1758 |
| Diode | | |
| D540 | 48E24504S01 | MA142WK |
| Coil / Transformer | | |
| L900 | 24E24678S01 | Inductor, 100μH |
| T900 | 25E24677S01 | Transformer, Power 3000559 |
| Switches / Fuse | | |
| S500 | 40E24281S01 | Slide, ESD11H120 (POWER) |
| S501 | 40E24281S01 | Slide, ESD11H120 (DIMMER) |
| F540 | 65E24287S01 | Fuse, CCP2E13 (0.52A) |
| Capacitors | | |
| E161 | 23E24688S01 | ELY., 220μF / 10V |
| E162 | 23E24689S01 | ELY., 100μF / 6.3V |
| E163 | 23E24690S01 | ELY., 22μF / 16V |
| C166 | 08E24648S01 | CP., 0.1μF |
| C167 | 08E24648S01 | CP., 0.1μF |

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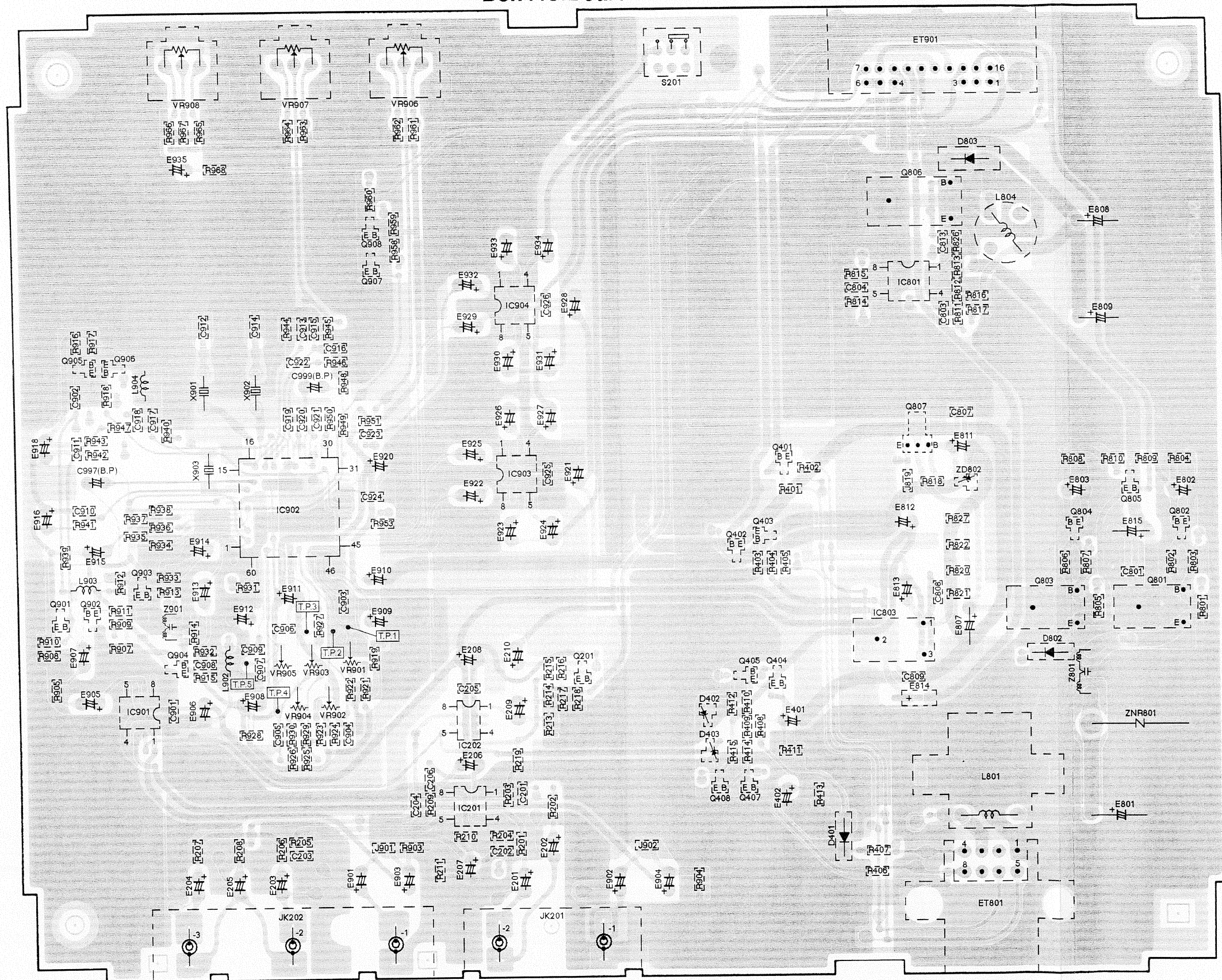
| Symbol No. | Part No. | Description | Symbol No. | Part No. | Description |
|---|-------------|--|------------|----------|-------------|
| C168 | 08E24662S01 | CP., 2200pF | | | |
| E440 | 23E24689S01 | ELY., 100μF / 6.3V | | | |
| E540 | 23E24687S01 | ELY., 33μF / 16V | | | |
| E541 | 23E24690S01 | ELY., 22μF / 16V | | | |
| C900 | 08E24694S01 | ECQV1J124JM, 0.12μF | | | |
| E900 | 23E24692S01 | ELY., 100μF / 16V | | | |
| C901 | 08E24686S01 | DE0707SL470J3K, 47pF | | | |
| C902 | 08E24686S01 | DE0707SL470J3K, 47pF | | | |
| C903 | 08E24654S01 | CP., 0.022μF | | | |
| C999 | 08E24545S01 | CP., 1000pF | | | |
| (All resistors are chip 1/10W±5% unless otherwise noted.) | | | | | |
| Resistors | | | | | |
| R170 | 06E24512S01 | 100 ohm | | | |
| R171 | 06E24512S01 | 100 ohm | | | |
| R172 | 06E24512S01 | 100 ohm | | | |
| R173 | 06E24518S01 | 18K ohm | | | |
| R174 | 06E24513S01 | 1K ohm | | | |
| R545 | 06E24683S01 | 10 ohm 1/8W | | | |
| R546 | 06E24682S01 | 620 ohm | | | |
| R547 | 06E24681S01 | ERG1SG150P, 15 ohm 1W | | | |
| R548 | 06E24616S01 | 180 ohm 1/4W | | | |
| R549 | 06E24616S01 | 180 ohm 1/4W | | | |
| R550 | 06E24680S01 | ERG1SG120P, 12 ohm 1W | | | |
| R551 | 06E24680S01 | ERG1SG120P, 12 ohm 1W | | | |
| R900 | 06E24513S01 | 1K ohm | | | |
| SUB (2) P.C.Board | | | | | |
| IC | | | | | |
| IC405 | 51E24290S01 | PNA4602M00LB | | | |
| LED | | | | | |
| LD500 | 48E24693S01 | LED, SLR-33DU (ORG) | | | |
| Miscellaneous | | | | | |
| ET201 | 09E24707S01 | 16P Connector (From AV Interface Unit) | | | |
| LCD901 | 01E24708S01 | Assy., LCD Unit (Included Assy., Control P.C.Board) | | | |
| SP101 | 50E23432S01 | Speaker | | | |
| VR160 | 18E24288S01 | Volume, 5K ohm (VOLUME) | | | |

Parts Layout on P.C.Boards and Wiring Diagram

TVE-M006P

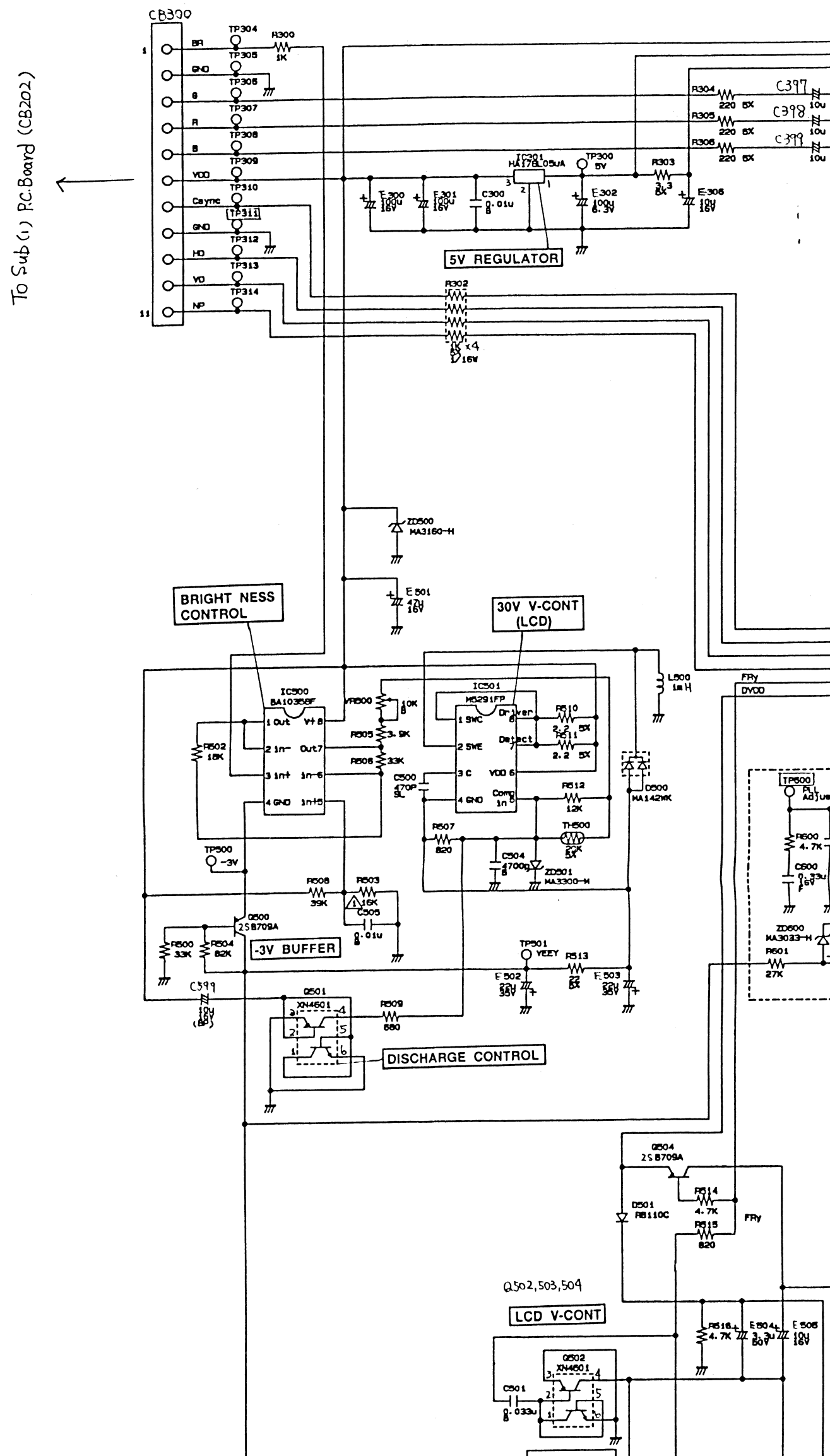
All P.C.Boards viewed from soldered side.

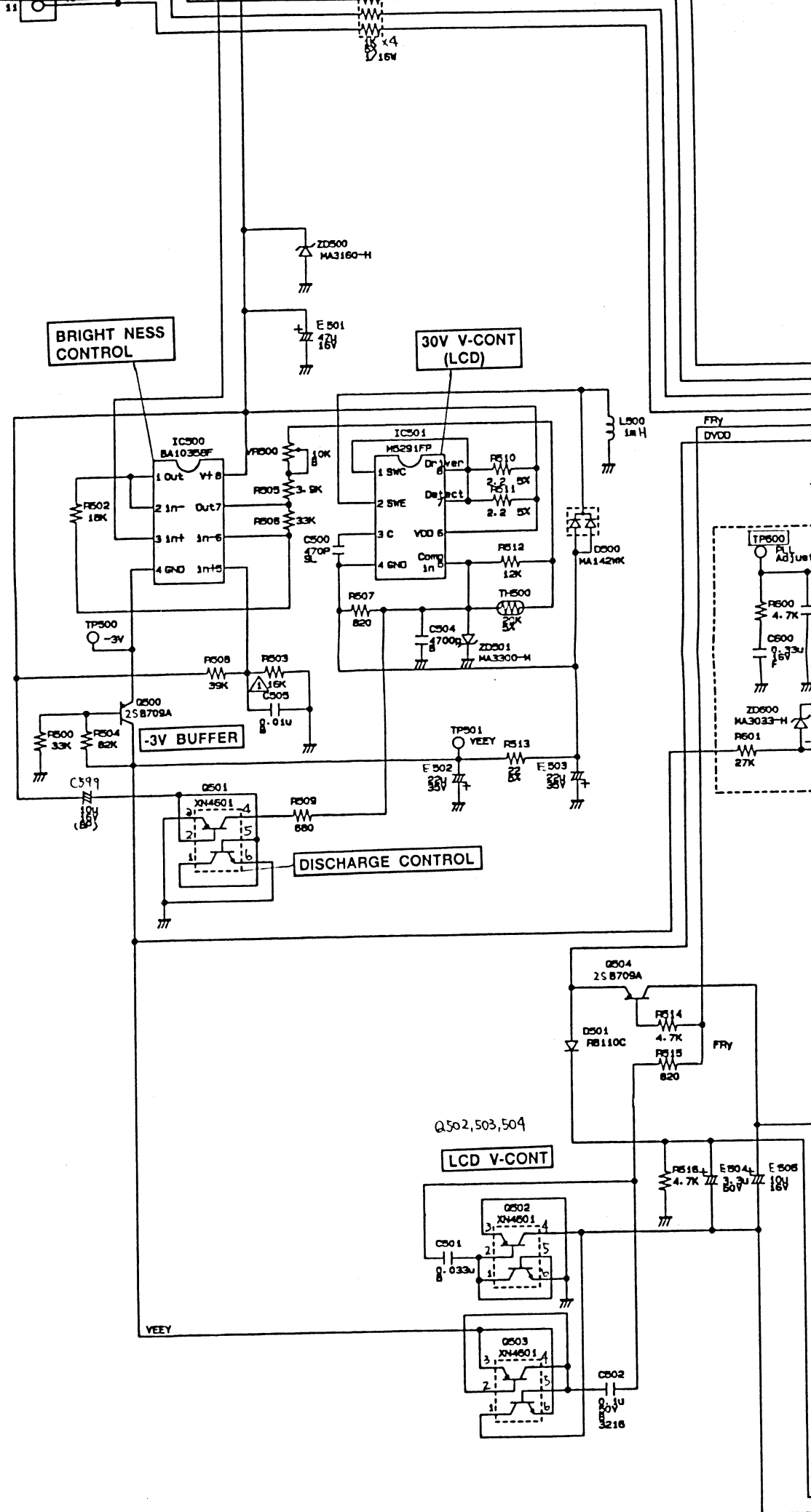
Box P.C.Board

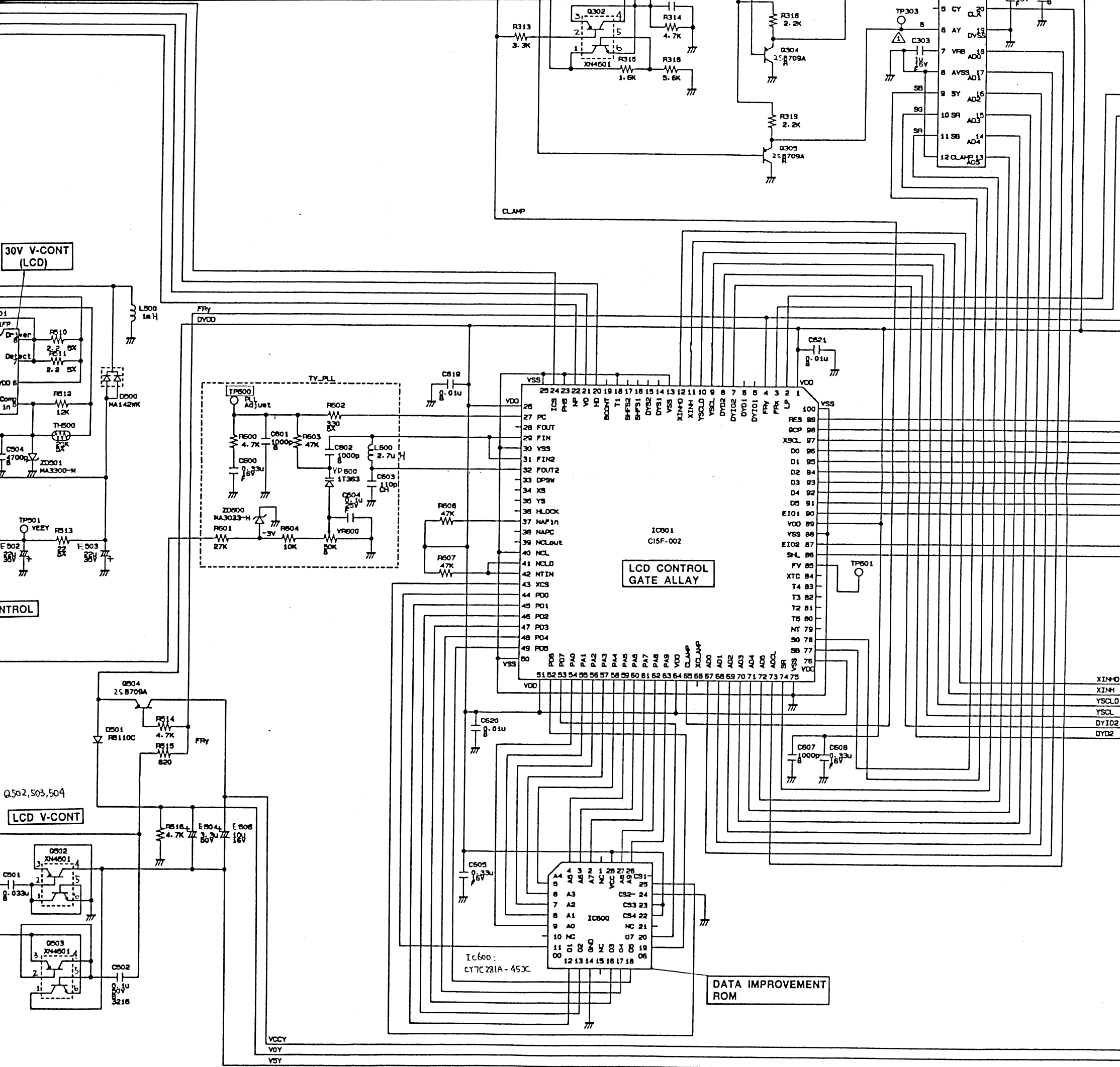


Orange Color Pattern :Component Side Pattern
Blue Color Pattern :Foil Side Pattern

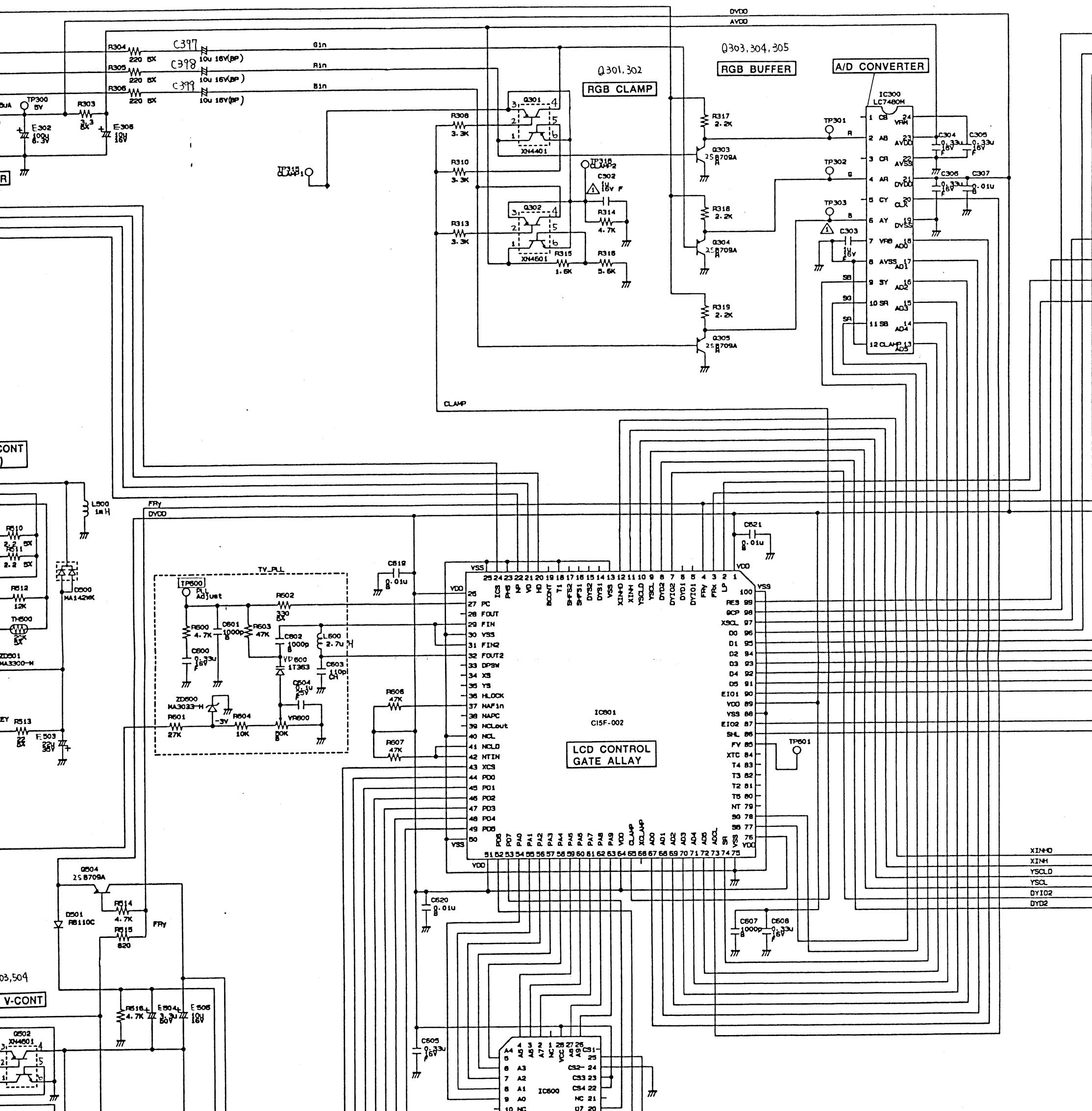
Schematic Diagram (1/2)

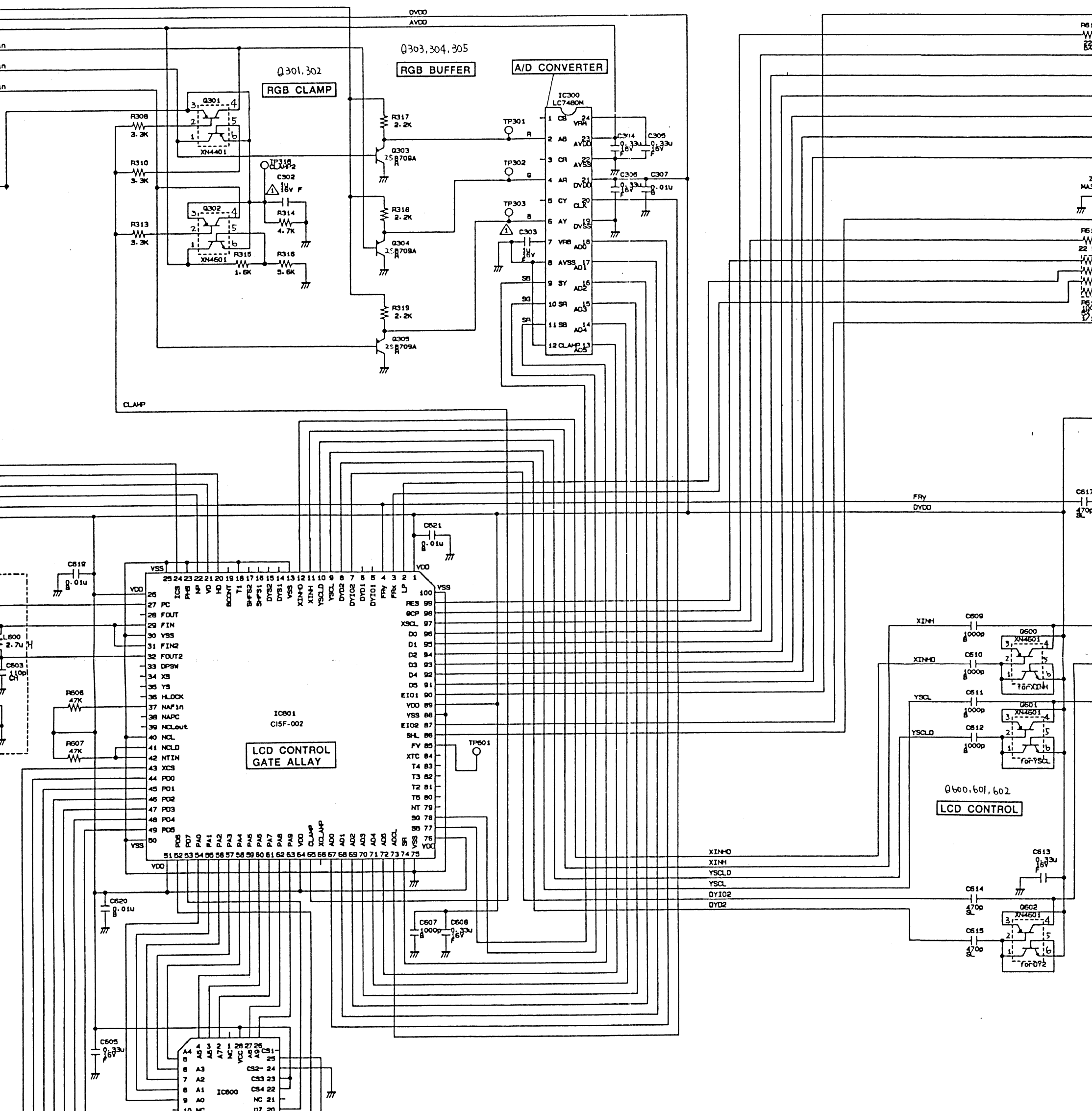






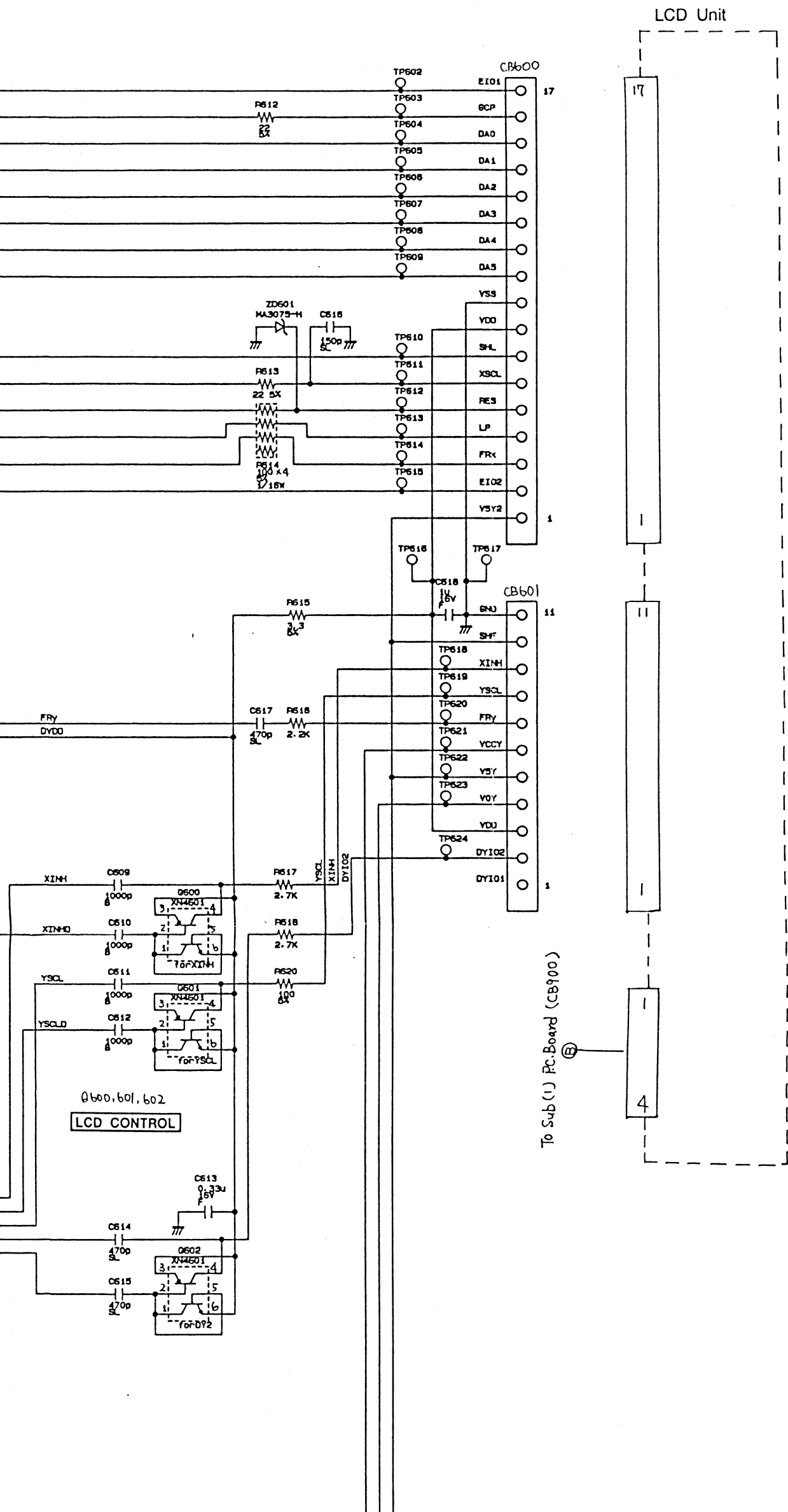
Control P.C.Board

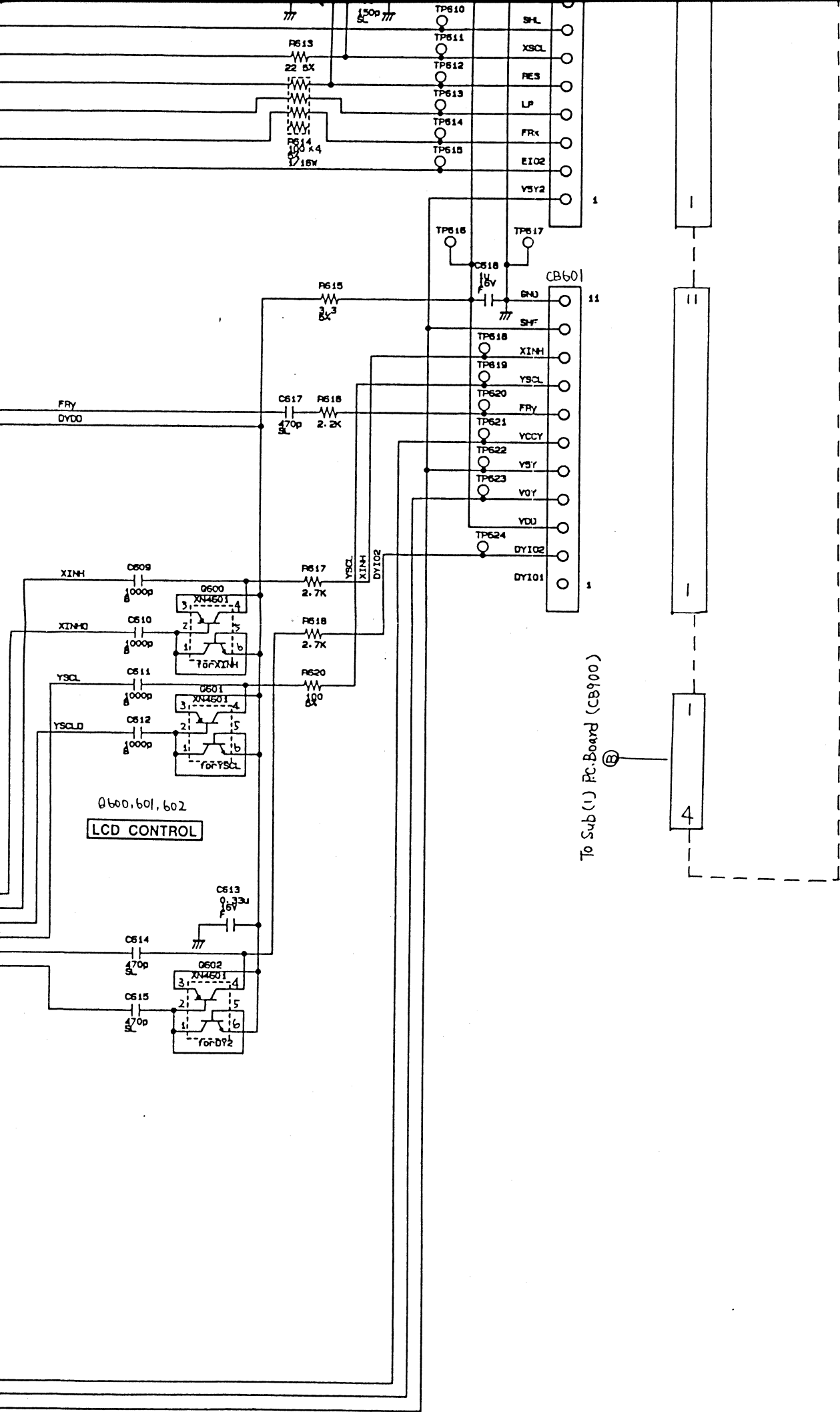




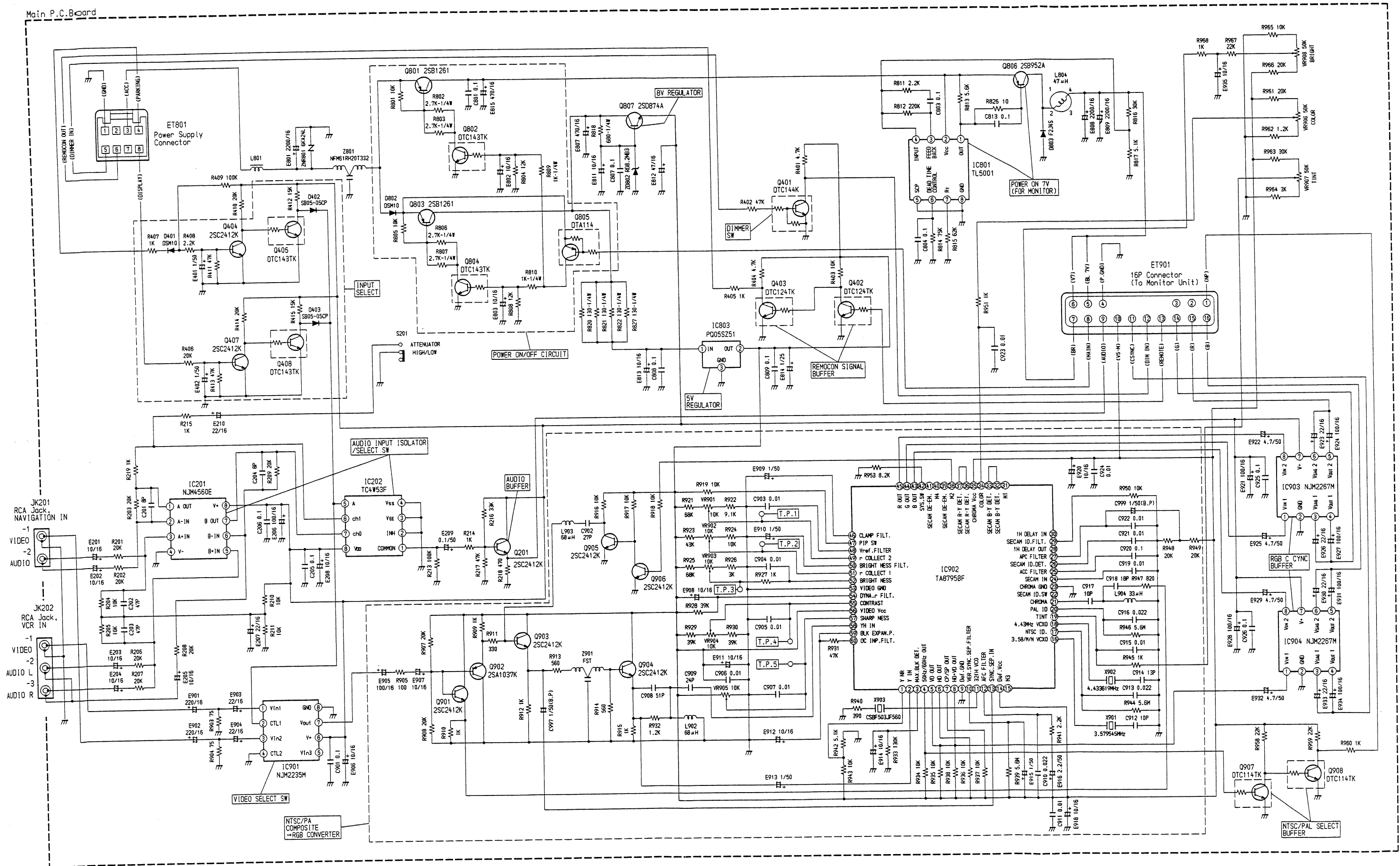


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Schematic Diagram



Parts Layout on P.C.Boards and Wiring Diagram

LCD901 Assy., LCD Unit

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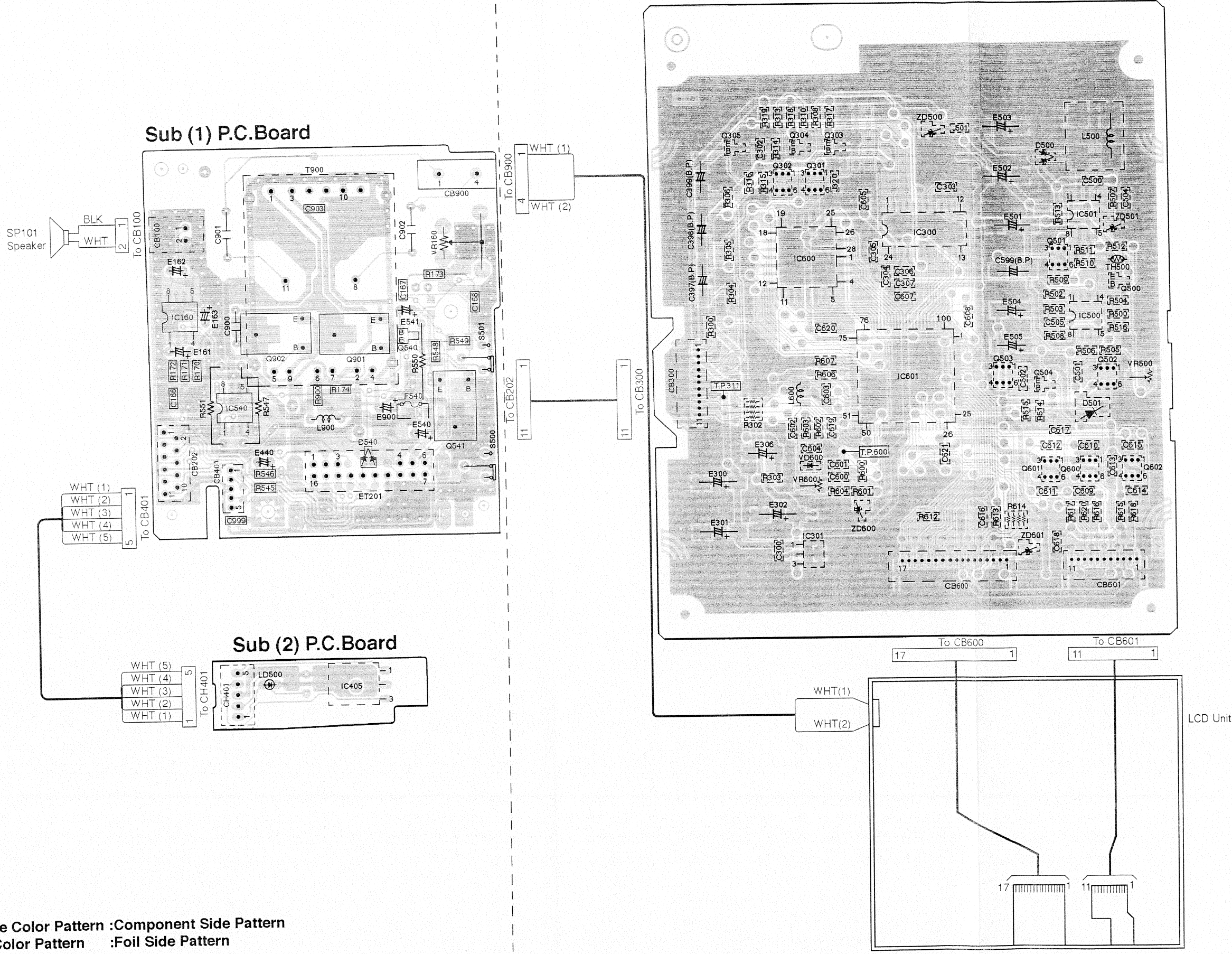
All P.C.Boards viewed from soldered side.

Control P.C.Board

Sub (1) P.C.Board

Sub (2) P.C.Board

Orange Color Pattern :Component Side Pattern
Blue Color Pattern :Foil Side Pattern



Exploded View (Cabinet)

TVE-M006P

Cabinet Assembly Parts List

NOTE: No parts number on parts list are not supplied.

| Symbol No. | Index | Part No. | Description |
|------------|-------|-------------|---------------------|
| 1 | | 01E24706S01 | Assy., Case Surface |
| 2 | | 15E23426S01 | Cover, Glass |
| 3 | | 15E23436S01 | Case, Bottom |
| 5 | | 36E23431S01 | Lever, Switch |
| 6 | | 03E23434S01 | Screw, Flat |
| 8 | | 03E23435S01 | Screw, Flat |
| 9 | | 03E23437S01 | Screw, Flat |
| 10 | | 03E23438S01 | Screw, Flat |
| 11 | | 03E23439S01 | Screw, Flat |

